

CHANNEL

LIGHTING & SAFETY SYSTEMS

Product & Price Guide | June 2016



Emergency Luminaires



General & Commercial
Luminaires



Security Lighting



Door Entry Systems



CCTV Surveillance



Fire Alarms, Panels
and Detectors



Equality Act & Assistance
Products

CHANNEL

LIGHTING & SAFETY SYSTEMS

COMPANY OVERVIEW

Established in 1976, Channel Safety Systems has now become a leading branded manufacturer and supplier to the UK Electrical Wholesaler and Electrical Contractor markets.

The company has built up a strong franchise in Lighting with the Emergency, Security and Commercial lighting portfolios as well as in the Fire Detection, Security (Door Entry and CCTV) and Disability Assistance fields.

Our knowledge, strength of service and attention to detail have earned us multiple accreditations from the industries' leading regulatory and trade bodies and we are proud to be affiliated with the LIA (Lighting Industry Association) ICEL (Industry Committee for Emergency Lighting), FIA (Fire Industry Association), affiliated manufacturer to the EDA (Electrical Distributors Association). We are also accredited with BSI and the Apollo Partner Plus programme.

You can find all of our products and Trade Prices listed in Luckins Live. Each product has a QR code that will take you directly to the appropriate pages online where you can download datasheets and relevant installation instructions. Channel branded products can be purchased from over 1,000 wholesale branches across the UK. For assistance in finding a local stockist please refer to our website and use the postcode search facility. Channel Safety can also provide a project solution service for the Electrical contractor working in partnership with a local wholesaler.

Channel Safety's aim is to provide the highest possible product quality and performance for an affordable, value for money price point.

USEFUL INFORMATION

Make a note of your Channel account number here

Your Internal Account Manager

Your Territory Manager

CONTACT US

Telephone

0845 884 7000

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0845 884 6000

Online

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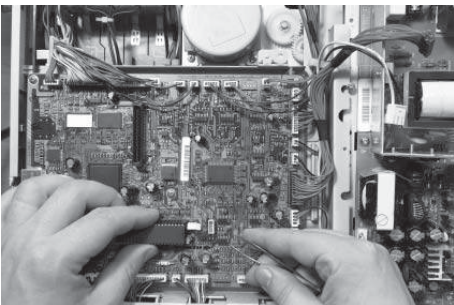
OUR OPENING HOURS

Monday ~ Thursday

08:00am to 5:00pm

Friday

08:00am to 4:00pm



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Stockist & Wholesaler Online!

Go to www.channelsafety.co.uk and find your nearest approved Channel Stockists & Wholesalers!



Emergency Lighting ~ An Overview

Lighting makes up approximately 20% of the UK's energy consumption and non-domestic lighting shamefully accounts for approximately 24 million tonnes of CO2 per annum.

As we all know, LED technology is rapidly taking over the lighting business, providing not only an attractive alternative to its conventional counterparts but also proving to provide long term savings in energy and subsequent replacement costs.

In addition to energy savings, LEDs in general illumination applications provide longer operating life (in the region of up to 50,000 hours), directionality, compact size, ease of control and dimmability compared to incumbent technologies they replace.

Contractors should be advising about the benefits of LED lighting solutions...

The LED has many benefits that should be highlighted to customers during a site survey, such as:-

- Reduced air conditioning costs as LED lights have a lower heat output
- LED lights last longer than conventional lighting
- They create less waste and boast more easily recycled components
- Cost saving over a longer period of time

The LED pros outweigh the cons when it comes to choosing efficient, cost effective lighting solutions for commercial, residential or industrial properties.

Risk Assessment Guide

Emergency Lighting is a primary life safety system which is required to assist the occupants of any premises to evacuate in the event of an emergency.

All non-domestic buildings that have artificial lighting installed should, by law, have emergency routes and exits sufficiently indicated by correct signage and illumination.

A fire risk assessment is a 5 step process:-

1. Identify the fire hazards
2. Identify people at risk
3. Evaluate, remove or reduce the risks
4. Record findings, prepare an emergency plan and provide training
5. Review and update the fire risk assessment regularly

Advice is given in the new British Standard BS 5266-10:2008 Guide to the design and provision of emergency lighting to reduce the risks from hazards in the event of mains failure of the normal power supply.

Building Regulations

To ensure your specified luminaires meet with the requirements of the current building regulations it is important to consider all the relevant legislation. The most common of these are Approved documents B & L:-

Approved Document B

- Part B deals with the fire safety requirements for emergency lights and the use of thermoplastic materials.

Building Regulations Continued...

Approved Document L

- Part L requires that energy efficient lighting is installed in both domestic and non-domestic dwellings, existing, new & refurbished (over 100m²)

Part L gives design information for the following (non-domestic dwellings).

- Selection of lamp types
- Effective use of daylight
- Control gear & power factor correction
- Use of lighting controls
- Luminaire efficiency

It is our recommendation that reference be made to the latest version of the Approved Documents. Full details can be found: www.planningportal.gov.uk

System Design Guide

The British Standard BS5266 has been revised to conform with the European Standard EN1838 (issued in the UK under reference BS EN1838/BS5266 Part 7) which specifies luminous requirements for emergency systems installed in premises. It also now calls up the luminaire product standard BS EN60598-2-22.

An escape lighting luminaire complying with EN 60598-2-22 shall be sited to provide appropriate illuminance near each exit door and at positions where it is necessary to emphasise potential danger or safety equipment. The positions to be emphasised shall include the following:

System Design Guide Continued...

- At each exit door intended to be used in an emergency
- Near stairs so that each flight of stairs receives direct light
- Near any other change in level
- Mandatory emergency exits and safety signs
- At each change of direction
- At each intersection of corridors
- Outside and near to each final exit
- Near first Aid Post
- Near fire fighting equipment
- Near escape equipment for the disabled
- Near disabled refuge and call points

Exit Signage Requirements

- Safety signs shall be illuminated to at least 50% of the required luminance within 5 seconds and full required luminance within 60 seconds.
- The colours shall conform to the requirements of ISO 3864.
- The luminance of any area of safety colour of the sign shall be at least 2 cd/m² in all relevant viewing directions.
- The ratio of the maximum to the minimum luminance within either white or the safety colour shall be not greater than 10:1.
- All signs must be of the same type within a building and not mixed.

For further information review the Technical Statement published by ICEL (ICEL TS03 Issue 1 – 12/12) on Emergency Exit “Clear” Signs.

Help & Assistance when specifying Emergency Lighting

EMERGENCY ESCAPE LIGHTING

To provide visibility for evacuation purposes lighting is required in the volume of the space. In this standard the recommendation is filled by the mounting of luminaires at least 2m above the floor. Signs which are provided at all exits intended to be used in an emergency and along escape routes shall be illuminated to indicate unambiguously the route of escape to a point of safety. Where direct sight of an emergency exit is not possible, an illuminated directional sign (or series of signs) shall be provided to assist progression towards the emergency exit.

An escape lighting luminaire complying with EN 6059-2-22 shall be sited to provide appropriate illuminance near each exit door and at positions where it is necessary to emphasise potential danger or safety equipment. The positions to be emphasised shall include the following (see opposite page):

- At each exit door intended to be used in an emergency
- Near stairs so that each flight of stairs receives direct light
- Near any other change in level
- Mandatory emergency exits and safety signs
- At each change of direction
- At each intersection of corridors
- Outside and near to each final exit

The following positions if not on the escape route or in an open area shall be illuminated to 5 lux minimum on the floor.

- Near (see note below) each first aid post
- Near (see note below) each piece of fire fighting equipment and call point.

Please Note: For the purposes of this clause, near is normally considered to be within 2m measured horizontally, subject to photometric data.

ESCAPE ROUTE LIGHTING

- For escape routes up to 2m in width, the horizontal illuminances on the floor along the centre line of an escape route shall be not less than 1 lx and the central band consisting of not less than half of the width of the route shall be illuminated to a minimum of 50% of that value.
- The ratio of the maximum to the minimum illuminance shall not be greater than 40:1 along the centre line of the escape route.
- Disability glare shall be kept low by limiting the luminous intensity of the luminaires within the field of view.
- The emergency escape route lighting shall reach 50% of the required illuminance level within 5s and full required illuminance within 60s.

OPEN AREA (ANTI-PANIC) LIGHTING

- The horizontal illuminance shall be not less than 0.5 lx at the floor level of the empty core area which excludes a border of 0.5 m of the perimeter of the area.
- The ratio of the maximum to the minimum anti-panic area lighting illuminance shall not be greater than 40: 1.
- Disability glare shall be kept low by limiting the luminous intensity of the luminaires within the field of view.
- The anti-panic area lighting shall reach 50% of the required illuminance within 5s and full required illuminance within 60s.

Compliance can be checked by measurement or by comparison with authenticated data from a supplier. (ie third party verified).

STANDBY LIGHTING

- When standby lighting is used for emergency escape lighting purposes it shall comply with the relevant requirements of this standard.
- Where a standby lighting level lower than the minimum normal lighting is employed, the lighting is to be used only to shut down or terminate processes.

HIGH RISK TASK AREA LIGHTING

- In areas of high risk the maintained illuminance on the reference plane shall be not less than 10% of the required maintained illuminance for that task, however it shall be not less than 15 lx. It shall be free of harmful stroboscopic effects.
- The uniformity of the high risk task area lighting illuminance shall be not less than 0.1.
- Disability glare shall be kept low by limiting the luminous intensity of the luminaires within the field of view.

VERIFICATION OF LUMINAIRE PERFORMANCE

- Illuminance levels should be checked, either by taking measurements or by calculation from authenticated. The data is usually presented in the form of spacing tables.
- Light output from signs and or exit boxes shall not be considered unless verified photometric data is available.
- For mains lighting luminaires converted for emergency use, the organisation responsible for the conversion should provide photometric data.
- Luminaire performance will be adversely affected by the build-up of dirt and inadequate maintenance.
- Existing luminaires should be checked to ensure lamps and lighting controllers are clean, undamaged and not blackened.
- Luminaire markings should be checked to establish certification marking and ambient temperature limits, as well as any stated IP rating of the luminaire.

ROUTINE SYSTEM TESTING

- All emergency lighting systems should be regularly inspected and tested. Results obtained and details of any corrective action should be entered into a log book which is held on site. An appropriate printout of computer data from an automatic testing device also meets this requirement.
- Test procedures in accordance with the recommendations of the Fire Precautions (Workplace) Regulations and the code of practice.
- Risk assessment of an existing installation should include a full system test and the results should be entered on assessment sheets.

When carrying out a test, simulating a mains failure, safe procedures must be followed:

- Do not switch off other essential services or equipment.
- Do not fully discharge a system if the building has to be re-occupied before recharge is completed (typically 24 hours).
- Do not test by removing fuses - this practice is not acceptably safe. Purpose designed test switches or systems should be utilised.

Help & Assistance when specifying Emergency Lighting

EMERGENCY LIGHTING DESIGN PROCEDURES

Carry out a risk assessment to determine requirements

- Verify escape routes.
- Establish position of fire alarm call points & fire fighting equipment.
- Establish position of fire and safety signs.
- Investigate potential hazards on escape routes.
- Establish open areas.
- Establish requirements for external escape lighting.
- Locate lifts, moving stairways, toilets, control rooms, covered car park.
- Investigate need for standby lighting.
- Establish areas of low risk for location of central power system.
- If a central battery unit is used, please ensure there is adequate space, ventilation and at least one self contained emergency light located to give adequate illumination of the unit in the event of an emergency.

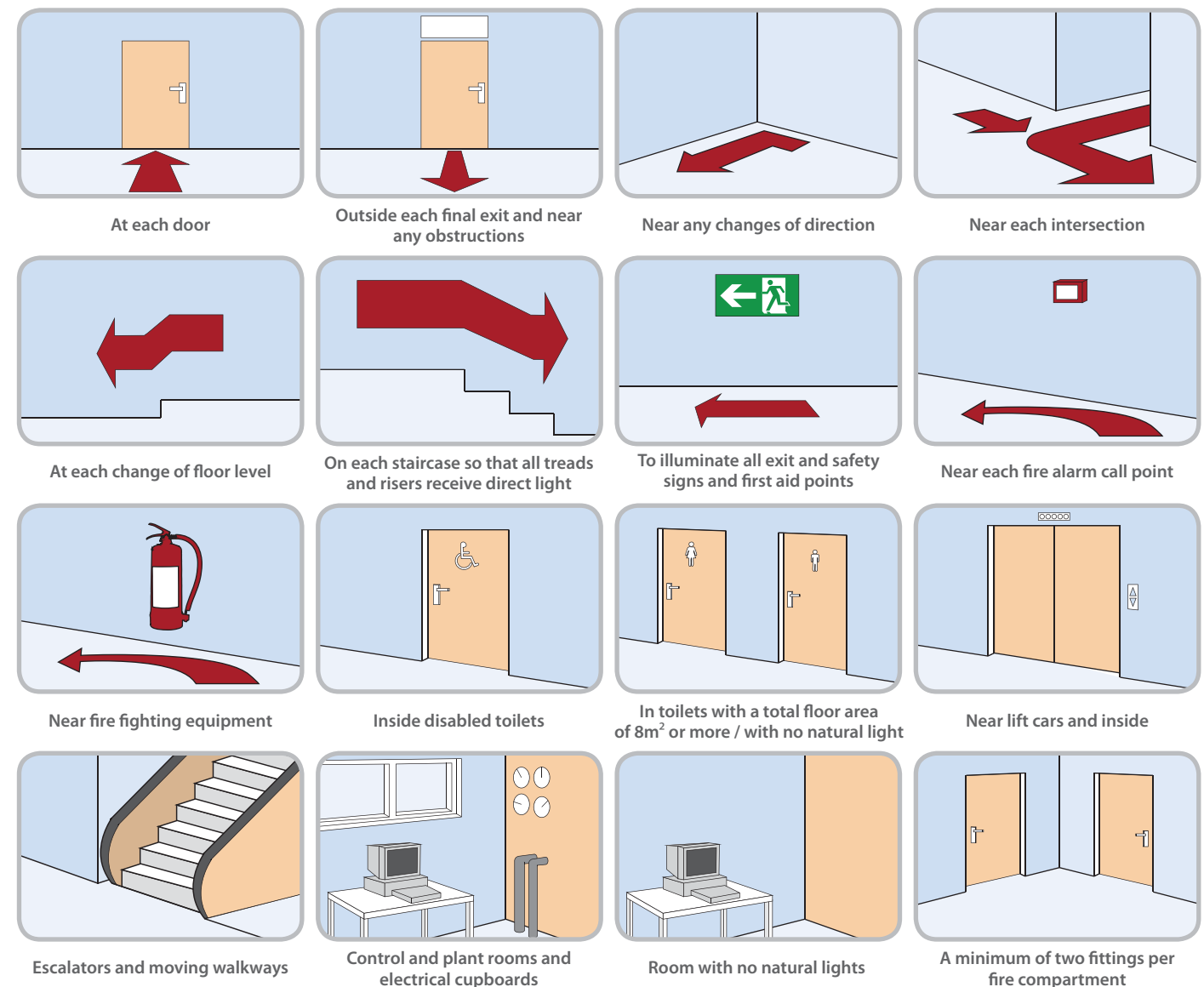
DESIGN OF ILLUMINANCE

- Position emergency lighting on plans to cover points of emphasis.
- Verify mounting heights of luminaires.
- Investigate possible deterioration of luminaire light output due to dirt and dust.
- Check voltage and possible voltage drop.
- Determine mode of operation.
- Choose emergency lighting luminaires.
- Obtain detailed photometric data of luminaires complying with the requirements of 855266 Pt 7:9999(EN 1838).
- Design scheme to the minimum illuminance required by the EN.

TYPICAL DESIGN CONSIDERATIONS

"Near" is defined as 2 metres horizontally within BS5266 subject to photometric data.

You can contact your Territory Manager or Internal Account Manager on 0845 884 7000 for a FREE of charge Emergency Lighting design service. (Subject to contract awarded).



Alpine™

PRODUCT FEATURES

- Dimensions: 210mm (H) 450mm (W) 55mm (D)
- Light source: LED
- Power consumption: 1.9W
- Uses typically 80% less power than that of an 8W fluorescent
- 1.9 LED equivalent to 8W fluorescent
- Material: White or silver/aluminium polycarbonate
- IP Rating: IP50
- Maintained or non-maintained 3 hour emergency backup
- Viewing distance: 32m
- Weight: 0.8Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Pictograms available



E/AL/M3/LED - Alpine finished in white polycarbonate



PRODUCT CODE	PRICE	DESCRIPTION
E/AL/M3/LED	£50.00	Alpine LED exit sign (Comes complete with Arrow Up legend)
ADDITIONAL LEGENDS		
E/PIC/AL/AD	£9.00	Alpine pictogram - arrow down
E/PIC/AL/AL	£9.00	Alpine pictogram - arrow left
E/PIC/AL/AR	£9.00	Alpine pictogram - arrow right
E/PIC/AL/AU	£9.00	Alpine pictogram - arrow up
REPLACEMENT PARTS		
B/BATT/ALPINE	£12.00	Alpine battery - 3 cell NiCd

Emergency Exit “Clear” Signs



GUIDELINES

- Text only signs are not legal and should have already been replaced
- BS5499 Pictogram signs (with or without supplementary text) are legal but should only have been used when expanding an installation already incorporating similar signs
- Pictogram only signs with the same format as shown in The Health and Safety (Signs and Signals) Regulations / EC Safety Signs Directive (92/58/EEC) are legal but should not be mixed with other sign formats on any installation
- From 2012, the new ISO 7010 Pictogram signs will also be legal but again should not be mixed with other formats on an installation.
- The latest proposals do not only identify the ISO 7010 sign format, there are also references to ISO 3864-1, ISO 3864-3 and ISO 3864-4 to provide detailed information relating to the safety colour, contrast colour and dimensions of the elements
- **For existing installations that already incorporate variations of BS 5499 and the Signs Directive these formats may be used**
- **For ALL new installations ISO 7010 pictograms must be installed**

The images below show the different appearance of the Pictogram symbols. ISO 7010 details the pictogram as the running man, which should be supported by a supplementary arrow sign. There is no provision for the use of supplementary text signs to be used with an emergency exit sign.



FORMATS AVAILABLE FOR USE IN THE UK



Vale

PRODUCT FEATURES

- Dimensions: 230mm (H) 355mm (W) 115mm (D)
- Cut out dimensions: 60mm (H) 335mm (W) 95mm (D)
- Light source: LED
- Power consumption: 2.1W
- Uses typically 80% less power than that of an 8W fluorescent
- Material: White, brass and chrome
- IP Rating: IP20
- Self test as standard
- Can be switched internally to maintained or non-maintained operation
- Viewing distance: 32m
- Weight: 1.5Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Double sided pictograms available



E/CHVL/M3/L/WHST - Vale fitting showing arrow up



PRODUCT CODE	PRICE	DESCRIPTION
E/CHVL/M3/L/WHST	£112.50	Vale LED 3 hour maintained white (Self-test complete with legend arrow up)
E/CHVL/M3/L/BRST	£127.50	Vale LED 3 hour maintained brass (Self-test complete with legend arrow up)
E/CHVL/M3/L/CHST	£127.50	Vale LED 3 hour maintained chrome (Self-test complete with legend arrow up)
ADDITIONAL LEGENDS		
S/LEG/VL/AD	£8.50	Vale double sided pictograms arrow down legend (insert only)
S/LEG/VL/ALR	£8.50	Vale double sided arrow pictograms left/right (insert only)
S/LEG/VL/AU	£8.50	Vale legend arrow up insert pictograms only (insert only)
REPLACEMENT PARTS		
B/BATT/DA/FO/VL/NIHM	£12.00	Battery for Vale - NiMH

Dale

PRODUCT FEATURES

- Dimensions: 175mm (H) 335mm (W) 38mm (D)
- Light source: LED
- Power consumption: 2.1W
- Uses typically 80% less power than that of an 8W fluorescent
- Material: White mild steel
- IP Rating: IP40
- Self test as standard
- Can be switched internally to maintained or non-maintained operation
- Viewing distance: 32m
- Weight: 1.0Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Pictograms available



E/DA/M3/LED/2/ST - Dale fitting showing arrow up



PRODUCT CODE	PRICE	DESCRIPTION
E/DA/M3/LED/3/ST	£97.25	Dale LED 3 hour maintained self-test complete with arrow up legend
ADDITIONAL LEGENDS		
S/LEG/DA/AL/3	£18.50	Pictogram arrow left
S/LEG/DA/AR/3	£18.50	Pictogram arrow right
S/LEG/DA/AD/3	£18.50	Pictogram arrow down
S/LEG/DA/AU/3	£18.50	Pictogram arrow up
REPLACEMENT PARTS		
B/BATT/DA/FO/VL/NIHM	£12.00	Battery for dale - NiMH

NEW Telesto™

PRODUCT FEATURES

- Light source: High efficiency LED SMD 2835
- Power Consumption: 3.5W
- Colour Temperature: 6000K
- Uses typically 80% less power than that of an 8W fluorescent
- Material: Polycarbonate / Aluminium
- IP Rating: IP20
- Maintained / Non maintained function - Switchable
- Compliance: BS EN 60598-2-22 and other relevant standards
- One Metre adjustable drop
- Viewing distance: 24 metres
- Comes complete with 4PC pictogram pack



PRODUCT CODE	PRICE	DESCRIPTION
E/TELESTO/HANG	£56.00	Telesto hanging LED Blade exit sign 3hr maintained/ non-maintained manual test complete with 4pc pictogram pack
E/TELESTO/SURF	£56.00	Telesto surface LED Blade exit sign 3hr maintained/ non-maintained manual test complete with 4pc pictogram pack
E/TELESTO/WALL	£50.00	Telesto LED wall mounted exit sign 3hr maintained/ non-maintained manual test complete with 4pc pictogram pack

Razor™

PRODUCT FEATURES

- Light source: LED 2W
- Uses typically 80% less power than that of an 8W fluorescent
- Material: Polycarbonate / Aluminium
- IP Rating: IP40
- Maintained 3 hour emergency backup
- Weight: 0.8Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Comes complete with universal legend pack



- Images Clockwise:-
- E/RZ/M3/LED/H - Razor hanging fitting
 - E/RZ/M3/LED/R - Razor hanging recessed fitting
 - E/RZ/M3/LED/W - Razor wall/ceiling mounted
 - E/RZ/M3/LED/F - Razor recessed (Blade)



PRODUCT CODE	PRICE	DESCRIPTION
E/RZ/M3/LED/H	£60.00	Razor 3 hour maintained LED exit sign hanging Comes complete with universal legend pack (arrows left/right, up and down)
E/RZ/M3/LED/R	£60.00	Razor 3 hour maintained LED exit sign hanging recessed Comes complete with universal legend pack (arrows left/right, up and down)
E/RZ/M3/LED/F	£60.00	Razor 3 hour maintained LED exit sign flush recessed Comes complete with universal legend pack (arrows left/right, up and down)
E/RZ/M3/LED/W	£60.00	Razor 3 hour maintained & non-maintained LED exit sign wall/ceiling fitting Comes complete with universal legend pack (arrows left/right, up and down)
REPLACEMENT PARTS		
E/PIC/RZ/PACK	£15.50	Razor pictogram Set
B/BATT/RAZOR/W	£12.00	Battery for Razor

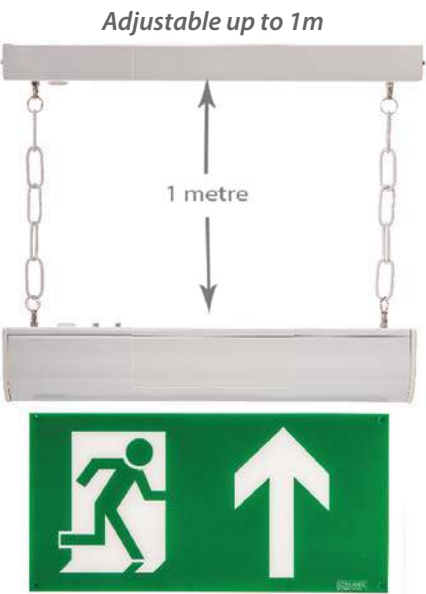
Forest

PRODUCT FEATURES

- Dimensions: 250mm(H) 360mm (W) 54mm(D)
- Light source: LED
- Power consumption: 2.1W
- Uses typically 80% less power than that of an 8W fluorescent
- Material: Steel with white, chrome, brass or satin finish options
- IP Rating: IP40
- Self test as standard
- Can be switched internally to maintained or non-maintained operation
- Viewing distance: 32m
- Weight: 1.5Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Double sided pictograms available



Please Note:-
The Forest fitting is supplied as standard with 1m hanging chain and fixing bracket but is also available for supply with ceiling pole brackets or as a flag mounted fitting.



E/CHFO/M3/L/WHST Forest fitting showing arrow up

LED

2.1W

IP40

32m

1.5Kg

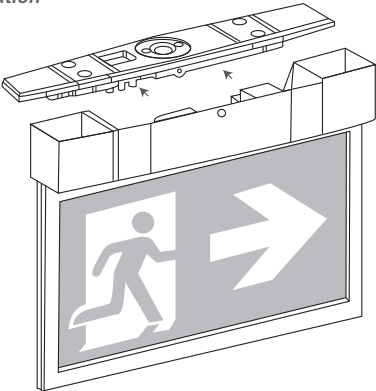
PRODUCT CODE	PRICE	DESCRIPTION
E/CHFO/M3/L/WHST	£136.00	Forest LED 3 hour maintained in white (Self-test complete with arrow up legend)
E/CHFO/M3/L/BRST	£172.50	Forest LED 3 hour maintained in brass (Self-test complete with arrow up legend)
E/CHFO/M3/L/CHST	£172.50	Forest LED 3 hour maintained in chrome (Self-test complete with arrow up legend)
E/CHFO/M3/L/SAST	£172.50	Forest LED 3 hour maintained in satin (Self-test complete with arrow up legend)
ADDITIONAL LEGENDS		
S/LEG/FO/AU	£8.50	Double sided arrow up legend for Forest (insert only)
S/LEG/FO/ALR	£8.50	Double sided arrow left/right for Forest (insert only)
S/LEG/FO/AD	£8.50	Double sided arrow down legend for Forest (insert only)
REPLACEMENT PARTS		
B/BATT/DA/FO/VL/NIHM	£12.00	Battery for Forest

Camber

PRODUCT FEATURES

- Light source: LED SMD3528
- Power consumption: 4W
- 50% energy saving over conventional fluorescent
- Self-test versions available
- Comes complete with universal legend pack
- Material: Polycarbonate housing
- IP Rating: IP20
- Maintained switchable and self-test versions available
- Viewing distance: 30m
- Weight: 1.3kg
- Compliance: BS EN 60598-2-22 and other relevant standards

Click fit mounting plate for quick installation



LED

4W

IP20

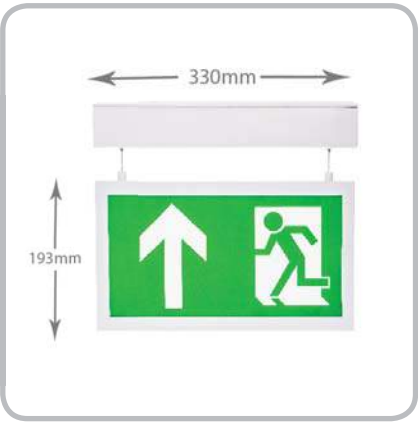
1.3Kg



E/CAMBER/WALL - Camber wall fitting



E/CAMBER/SURF - Camber surface fitting



E/CAMBER/HANG - Camber hanging fitting
1 Meter drop on wires

PRODUCT CODE	PRICE	DESCRIPTION
E/CAMBER/WALL	£62.50	Camber LED wall mounted exit sign 3hr maintained Comes complete with pictogram pack (arrows left/right and up and down)
E/CAMBER/WALL/ST	£81.50	Camber LED wall mounted exit sign 3hr maintained self-test Comes complete with pictogram pack (arrows left/right and up and down)
E/CAMBER/SURF	£77.50	Camber LED surface exit sign 3hr maintained Comes complete with pictogram pack (arrows left/right and up and down)
E/CAMBER/SURF/ST	£94.50	Camber LED surface exit sign 3hr maintained self-test Comes complete with pictogram pack (arrows left/right and up and down)
E/CAMBER/HANG	£90.00	Camber LED hanging exit sign 3hr maintained Comes complete with pictogram pack (arrows left/right and up and down)
E/CAMBER/HANG/ST	£108.00	Camber LED hanging exit sign 3hr maintained self-test Comes complete with pictogram pack (arrows left/right and up and down)
REPLACEMENT PARTS		
B/BATT/CAMBER	£12.00	Battery for Camber

Meteor™ LED

PRODUCT OVERVIEW

This popular fitting is now available with a self-test option available.

Weighing in at only 360g and measuring 260x100x61mm the Meteor LED fitting has a lumen output of 52 in emergency mode from a 10 LED array, a hinged gear tray allows for easy installation.

The unit boasts an aesthetically pleasing design and is virtually maintenance free. The biggest success, as with the majority of our LED products, is that it operates on 20% of the power that a standard 8W fluorescent would consume.

Convert your Meteor Bulkhead fitting into an attractive emergency exit sign with a blade and diffuser kit.

PRODUCT FEATURES

- Dimensions: 100mm (H) 260mm (W) 61mm (D)
- Cut out dimensions: 230mm (L) 85mm (W)
- Light source: LED
- Power consumption: 3W
- Uses typically 80% less power than that of an 8W fluorescent
- Maintained or non-maintained 3 hour emergency backup
- Weight: 0.36Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Semi-recessing kit and diffuser with legend



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height				
2.5m	2.4	5.8	5.4	2.4
4m	1.0	4.9	5.2	1.0



E/ME/M3/LED/IP65



E/PIC/ME/LED/BLADE - Bulkhead shown with NEW Blade & Diffuser Kit

PRODUCT CODE	PRICE	DESCRIPTION
E/ME/M3/LED/IP65	£37.50	Meteor low profile LED bulkhead complete with 10 LED array, IP65 version
E/ME/M3/LED/IP65/ST	£63.00	Meteor IP65 low profile LED Bulkhead complete with 10 LED array, self test version
ACCESSORIES		
E/ME/LED/SRK/1	£11.00	Meteor LED semi-recessing kit
E/PIC/ME/LED/PACK	£8.00	Meteor LED sticker pictogram pack - (AD, AL, AR & AU)
E/PIC/ME/LED/BLADE	£29.00	Meteor LED Blade and Diffuser kit (Achieving IP65 rating) Light fitting not included
REPLACEMENT PARTS		
B/BATT/METEOR/LED	£12.00	Meteor LED battery - 3 cell stick AA NiCd 0.Ah

Meteor Maxi™ LED

PRODUCT OVERVIEW

New to the June 2016 edition, the Meteor Maxi benefits from higher lumen output and a larger housing, making it a true 8W replacement.

Measuring 110mm (H) 352mm (W) 57mm (D) the Meteor MaxiLED fitting has a lumen output of 124 in emergency mode from a 10 LED array, a hinged gear tray allows for easy installation.

The unit boasts an aesthetically pleasing design and is virtually maintenance free. The biggest success, as with the majority of our LED products, is that it operates on 20% of the power that a standard 8W fluorescent would consume.

Convert your Meteor Maxi Bulkhead fitting into an attractive emergency exit sign with a blade and diffuser kit.

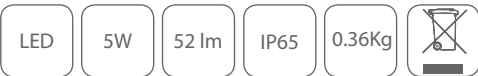
PRODUCT FEATURES

- Dimensions: 110mm (H) 352mm (W) 57mm (D)
- Light source: LED
- Power consumption: 5W
- Uses typically 80% less power than that of an 8W fluorescent
- Maintained or non-maintained 3 hour emergency backup
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Semi-recessing kit and diffuser with legend



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height							
	0.5 lux	1 lux	0.5 lux	1 lux	0.5 lux	1 lux	0.5 lux
2.5m	3.25	3.30	6.50	6.60	4.90	4.35	2.45
4m	3.60	4.00	7.20	8.00	6.00	4.55	3.00
6m	3.70	N/A	7.40	N/A	6.15	N/A	3.10



PRODUCT CODE	PRICE	DESCRIPTION
E/MM/M3/LED	£40.00	Meteor Maxi LED 3 Hour Maintained Emergency Light
E/BEZ/MM	£8.00	Meteor Maxi Semi Recessing Bezel
B/BATT/MM	£12.00	Meteor Maxi LED Battery 3.6V 1500mAh with connector

Meteor™ 110V AC

PRODUCT FEATURES

- Dimensions: 75mm (H) 350mm(W) 90mm(D)
- Cut out dimensions: 335mm(L) 80mm(W) 30mm(D)
- Light source: T5 Fluorescent tube
- Power consumption: 8W
- Lumen output: 108 lm (emergency mode)
- IP Rating: IP65
- Maintained 3 hour emergency backup
- Viewing distance: 18m with drop down legend
- Weight: 0.8Kg
- Compliance: BS EN 60598-2-22
- Other accessories: Pictograms or drop down legends available



E/ME/M3F/110 Meteor 110V



PRODUCT CODE	PRICE	DESCRIPTION
E/ME/M3F/110	£25.50	Meteor 8W maintained luminaire 110V yellow base
E/LEG/ME/AD	£12.50	Meteor drop down exit legend arrow down
E/LEG/ME/ALR	£12.50	Meteor drop down exit legend arrow left/right
E/PIC/ME/PACK	£3.50	Meteor pictogram pack - AD/AL/AR/AU
REPLACEMENT PARTS		
B/BATT/METEOR	£12.00	2.4V 4AH NiCd SBS battery complete with connector

Meteor™ Fluorescent

PRODUCT FEATURES

- Dimensions: 75mm (H) 350mm (W) 90mm(D)
- Cut out dimensions: 338mm - 84mm
- Light source: T5 fluorescent tube
- Power consumption: 8W
- Lumen output: 108 lm (emergency mode)
- Material: Polycarbonate
- IP Rating: IP65
- Maintained or non-maintained 3 hour emergency backup
- Viewing distance: 18m with drop down legend
- Weight: 0.8Kg
- Compliance: BS EN 60598-2-22
- Other accessories: Pictograms or drop down legends available



E/ME/M3F - Meteor fluorescent

E/LEG/ME/AD - Meteor fluorescent with drop down legend showing arrow down



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height				
2.5m	1.6	4.6	4.3	1.4
4m	N/A	3.6	3.4	N/A

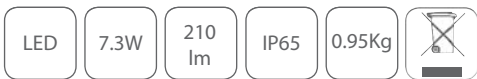


PRODUCT CODE	PRICE	DESCRIPTION
E/ME/M3F	£34.00	Meteor Fluorescent 8W maintained luminaire
E/ME/NM3F	£30.50	Meteor Fluorescent 8W non-maintained luminaire
E/LEG/ME/AD	£12.50	Meteor drop down exit legend arrow down
E/PIC/ME/PACK	£3.50	Meteor pictogram pack - AD/AL/AR/AU
E/BEZ/ME	£14.50	Bezel for Meteor
E/BACKET/ME	£16.00	Bracket for Meteor bezel
REPLACEMENT PARTS		
B/BATT/METEOR	£12.00	2.4V 4AH NiCd SBS battery complete with connector

NEW Brook 2

PRODUCT FEATURES

- Now with increased light output
- Dimensions: 115mm (H) 350mm (W) 75mm (D)
- Cut out dimensions for bezel: 83mm - 337mm
- Light source: LED (50 in unit)
- Power consumption: 7.3W
- Uses typically 80% less power than that of an 8W fluorescent
- Lumen output: 320 lm (210lm emergency mode)
- Material: Polycarbonate diffuser and body
- IP Rating: IP65
- Maintained or non-maintained 3 hour emergency backup
- Weight: 0.95Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Semi-recessing bezel available



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height				
2.5m	2.6	7.7	8.9	2.9
4m	2.6	4.9	8.9	2.7

PRODUCT CODE	PRICE	DESCRIPTION
E/BK/M3/LED/2	£53.75	Brook self contained, self-test 3 hour maintained emergency LED light
E/BK/M3/LED/2/ST	£100.00	Brook self contained, self-test 3 hour maintained emergency LED light
E/BZ/KIT/BROOK/WH	£35.75	Brook semi-recessing bezel
REPLACEMENT PARTS		
B/BATT/BROOK/2	£12.00	Brook battery - 3 cell NiCd

Grove™ - IP20, IP65 & Self Test Versions

PRODUCT OVERVIEW

We are excited to bring you vastly improved lumen outputs with our new generation Grove twinspace fittings! Both fittings now boast an impressive 720lm output!

The Grove range has new & improved head design and is also available as an IP65 Self Test Version.

PRODUCT FEATURES

- Grove IP20 Dimensions: 260mm(H) 300mm(W) 70mm(D)
- Grove IP65 Dimensions: 285mm(H) 280mm(W) 75mm(D)
- No of LEDs per head: 15 | Low maintenance
- Power consumption: 15W (emergency mode)
- Uses 50% power than that of a Tungsten halogen
- Material: White metal body/polycarbonate lamps & lenses
- IP Rating: IP20 & IP65 | Non-maintained mode only
- Weight: IP20 - 2.20Kg | IP65 - 1.95Kg
- Compliance: BS EN 60598-2-22 and other relevant standards
- Other accessories: Triple or four headed units, remote heads & power pack also available



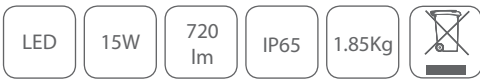
GROVE IP20 PHOTOMETRIC DATA



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height	Back - Side - Front	
4m	4.4 - 4.0m - 9.0m	13.2m
6m	4.7m - 5.2m - 10.8m	15.0m
8m	6.2m - 6.6m - 12.2m	17.0m

GROVE IP65



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height	Back - Side - Front	
4m	4.4 - 4.0m - 9.0m	13.2m
6m	4.7m - 5.2m - 10.8m	15.0m
8m	6.2m - 6.6m - 12.2m	17.0m



GROVE IP20 VERSION

E/GR/NM3/LED/2	£78.00	Grove Twin 15 x LED floodlight, 3 hour non-maintained white lamps
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REPLACEMENT PARTS

B/BATT/GROVE/3	£24.50	9.6V Battery pack for Grove/2
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GROVE IP65 VERSION

E/GR/NM3/LED/IP65/2	£95.95	Grove Twin 2 x LED floodlight 3 hour non-maintained with white lamps
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E/GR/NM3/LED/IP65/ST	£120.00	Grove Twin 2 x LED floodlight 3 hour non-maintained with white lamps Self Test Version
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REPLACEMENT PARTS

B/BATT/GROVE/3	£24.50	9.6V Battery pack for Grove/2
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NEW

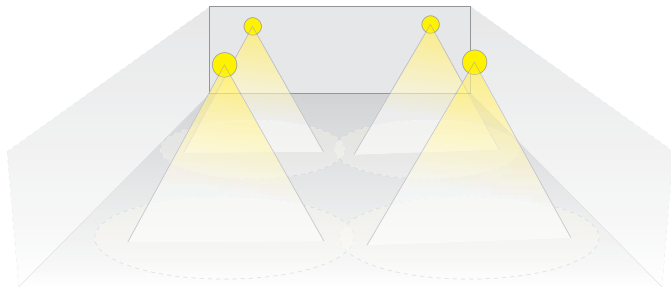
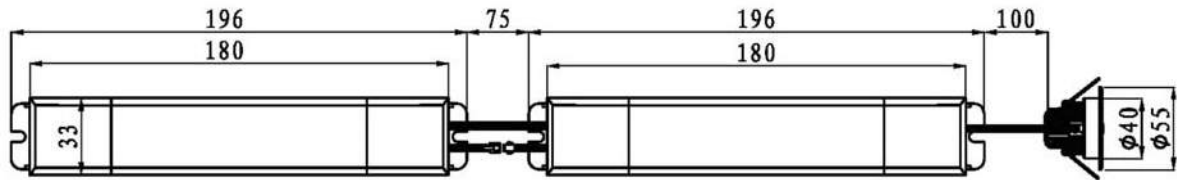
Safe-Spot™ Mk II- Self Test

PRODUCT OVERVIEW

Now with improved spacing in smaller package the Safe-Spot Mk II offers a single unit to meet most emergency lighting applications.

PRODUCT FEATURES

- Cree LED
- Cut out dimensions: 42 - 50mm(Ø)
- Polycarbonate trim plate and die casting heat sink
- Polycarbonate housing for power module/ battery
- Self test as standard, DALI available (special order)
- Ni-MH battery
- Special reflector design to give a ?
- Compact size
- IP Rating: IP20
- Compliance: BS EN 60598-2-22 and other relevant standards



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height				
2.5m	5m	10m	4.25m	3.5m
3m	5.8m	11.6m	4.9m	4.0m
3.5m	6.3m	12.6m	5.25m	4.2m

PRODUCT CODE	PRICE	DESCRIPTION
E/SSPOT/MK2	£95.00	Safe-Spot Mk 2 enhanced output. Self-test. 3 hour emergency light with 7.V Ni-MH 1200mA battery
E/SSPOT/MK2/DALI	£134.50	Safe-Spot Mk 2 enhanced output. Self-test. 3 hour emergency light with 7.V Ni-MH 1200mA battery

Safe-Spot™ Surface

PRODUCT FEATURES

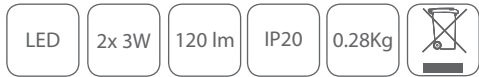
- Dimensions: 125mm(H) 140mm(W) 38mm(D)
- Light source: LED
- Power consumption: 2 x high power 3W white LEDs
- Self test version available
- Lumen output: 120lm
- IP Rating: IP20
- Weight: 0.28Kg
- Compliance: BS EN 60598-2-22 and other relevant standards



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height				
Open Area	0.5 lux		1 lux	
2.5m	3.0m	6.5m	3.0m	6.0m
3m	3.5m	7.0m	3.0m	6.5m

PRODUCT CODE	PRICE	DESCRIPTION
E/SSPOT/LED/SURF/OA	£88.00	Safe-Spot 3hr 3W maintained open area surface downlight
E/SSPOT/LED/SURF/C	£88.00	Safe-Spot 3hr 3W maintained escape route surface downlight
E/SSPOT/LED/SURF/ST/O	£99.50	Safe-Spot 3hr 3W maintained self-test open area surface downlight
E/SSPOT/LED/SURF/ST/C	£99.50	Safe-Spot 3hr 3W maintained self-test escape route surface downlight



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height				
Corridor fitting	0.5 lux		1 lux	
2.5m	5.0m	10.0m	5.0m	9.5m
3m	5.5m	11.0m	5.0m	10.0m

Glade

PRODUCT FEATURES

- Dimensions: 1W: 44mm(Ø) 34mm(H) 5W: 77mm(Ø) 55mm(H)
- Cut out dimensions: 1W: 35-38mm(Ø) 5W: 60-65mm(Ø)
- Light source: LED
- Power consumption: 1W or 5W versions
- Lumen output: 60 lm or 194 lm
- IP Rating: IP40
- 1W non-maintained, 5W maintained
- Weight: 1W: 0.254Kg 5W: 0.785Kg
- Compliance: BS EN 60598-2-22 and other relevant standards



PHOTOMETRIC SPACING DATA (1 lux)

GLADE 1W				
Mounting height				
2.5m	2.4	5.8	5.4	2.4
4m	1.0	4.9	5.2	1.0

PRODUCT CODE	PRICE	DESCRIPTION
E/GL/LED/NM3/1W/WH	£41.00	Glade 1W non-maintained LED mini down light - white
E/GL/LED/M3/5W/WH	£76.00	Glade 5W maintained LED mini down light - white



5W 1W

PHOTOMETRIC SPACING DATA (1 lux)

GLADE 5W				
Mounting height				
2.5m	2.8	5.7	5.7	2.8
4m	3.4	7.3	7.3	3.4
6m	3.9	9.6	9.6	3.9

Ceilo

PRODUCT FEATURES

- Dimensions: Downlight: 50mm(Ø) 25mm(D)
- Light source: CREE X T-E LED
- Maintained and non-maintained
- Self test and DALI versions available
- Power consumption: 5W
- Lumen Output: 150 lm
- Weight: 0.32Kg
- Compliance: BS EN 60598-2-22

LED

5W

150 lm

IP20

0.32 Kg



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height		
2.5m	3.0	5.8
4m	3.45	6.4

PRODUCT CODE	PRICE	DESCRIPTION
E/CEILO/LED/ST	£89.50	Ceilo downlight 5W, maintained and non-maintained self-test version
E/CEILO/LED/DALI	£142.00	Ceilo downlight 5W, maintained and non-maintained Dali version



A guide to DALI controls

What is DALI?

DALI stands for Digital Addressable Lighting Interface. In other words, it is a worldwide standardized digital lighting interface. The DALI standard, specified in IEC standard 60929, ensures interchange ability and compatibility of lighting products from different manufacturers.

The DALI system was created by leading lighting manufacturers who recognized the need for a common interface. DALI was engineered to meet the new challenges of lighting control – more flexibility, greater scalability of control and faster installation.

How long has it been around?

The history of DALI is an interesting one. The idea first came from a ballast company in Europe over 10 years ago. Three other ballast companies joined with the first to form a proposal for the International Electrotechnical Commission (IEC) in order to create a standard on communication protocols used for ballasts. About six years ago, the United States became involved as well. “Finally, the standard is being published this year,” says Pekka Hakkarainen, director of technology and business development for Coopersburg, PA-based Lutron Electronics and chair of the Lighting Controls Council at Rosslyn, VA-based National Electrical Manufacturers Association (NEMA). “[The standard] has been in its final form for maybe a little less than two years. [It] is included in the IEC standard for fluorescent ballasts, and it’s one of the annexes in the standard. It defines a method of communicating to the ballast that the industry has agreed on.” The current standard doesn’t yet define much for the DALI controls, other than the fact that they must have the capability to send messages to the ballasts.

DALI was accepted as an international standard in 2002; the first DALI ballasts were introduced into the United States in the late ‘90s.

The DALI system at work

Traditional DALI allows for individual light fittings to be controlled and grouped together into logical areas.

The DALI protocol allows for a maximum of 64 fittings on a single network and the network can be broken up into 16 different possible areas.

DALI enables total control

Compared to a fixed output installation, the dimming and individual control capability provided by DALI enables considerable energy savings. In combination with dimmable drivers, presence and daylight sensors, energy savings of up to 80 per cent can be achieved.

If the operation of the lighting is to be rearranged or regrouped, the costs per circuit in a fixed output system could be four times higher than those in a DALI system.

The ability to send queries and obtain replies – two-way communication – can greatly reduce maintenance costs. For example, DALI allows automatic testing and reporting of monthly function tests of emergency lighting. In addition, energy consumption and lamp condition can be checked for each luminaire, very easily and at no additional cost.

Other Features of using DALI

- Simplicity & Robustness
- Scalability & Flexibility
- Energy and cost-saving
- DALI creates potential for connectivity
- DALI is a global standard

NEW i-Monitor Emergency Light Testing System

PRODUCT FEATURES

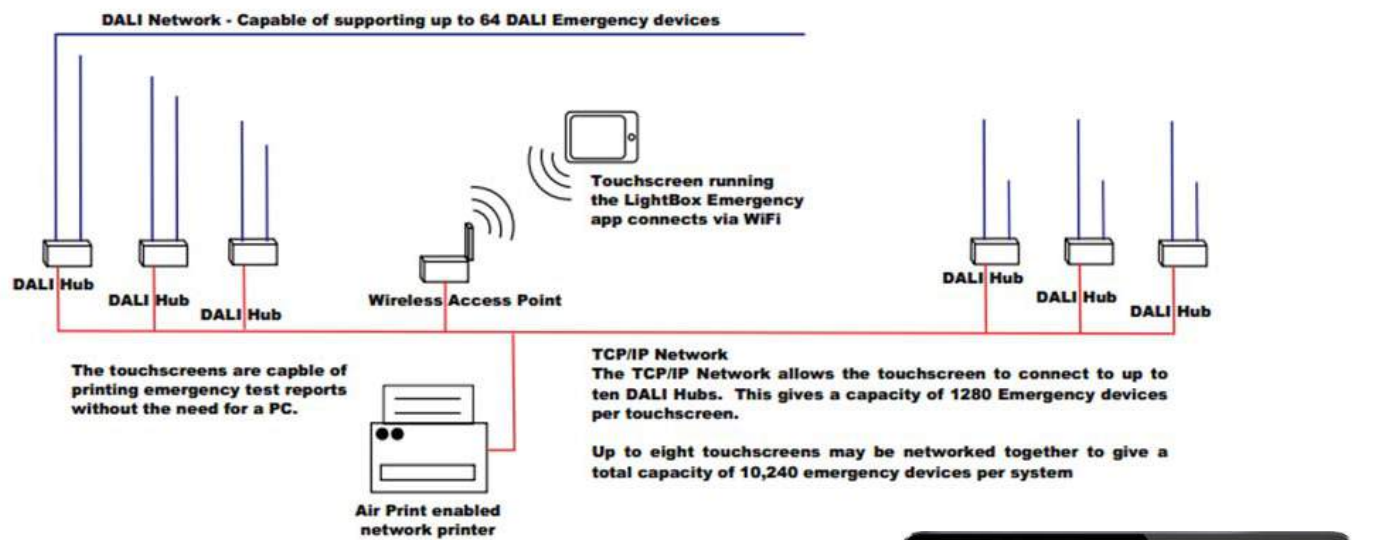
- Control & programming via a standard iPad
- From 1 to 10,240 Dali emergency lights
- Custom made project specific distribution hub
- Intuitive programming & commissioning
- Multi panel network option
- Test result log



The Channel Safety System i-monitor Emergency is a comprehensive DALI based emergency light testing system. i-Monitor Emergency has been designed to provide a flexible, powerful and user friendly emergency lighting testing and reporting system.

The i-Monitor control panels are standard Apple iPad devices utilising a specific ‘App’ which is intuitive and very easy to use for both the commissioning engineer as well as a user. The ‘App’ is used to configure all the connected DALI emergency devices.

Featuring an intuitive graphic user interface and commissioning tool, coupled with a very powerful database engine, the system provides an intuitive and simple way to initially set-up the system, as well as presentation of live real time status. Results from routine tests are available to view, print and/or email (internet connectivity required for email), thus assisting the building operator in maintaining his emergency lighting with timely repairs to reported faults, as well as maintaining records of testing for demonstration of compliance with regulations.



An i-Monitor Emergency lighting test system comprises of one or more Touch Screens, each supporting up to 10 Channel Safety Systems DALI Emergency Hubs each have two separate DALI field networks supporting up to 64 DALI devices each. Therefore each Touch Screen and associated DALI Emergency Hub’s has the capacity to manage up to 1,280 DALI emergency devices. These devices can then be allocated to one of 16 testing groups. Up to 8 touch screens can be networked together to form a system which can accommodate 10,240 DALI emergency units.

Ordering Details: Please contact us with your requirements for us to provide a customised solution to meet your system requirements.

NEW i-Monitor Emergency Light Testing system

CONTINUED...



DALI Emergency Distribution HUB



The DALI Hub has two DALI networks, each capable of supporting 64 emergency lighting devices as specified by the DALI standard, for a total of 128 devices per hub. The DALI Emergency hub is capable of controlling and i-Monitoring all DALI Emergency lighting control gear irrespective of manufacturer, providing they are fully compliant with the DALI standard for Type 1 (emergency) devices.

Wide range of DALI compatible emergency lights:



Celio 1W downlight



Left: Exit Box



Left: SoHo 20W Ceiling Light (325mm Dia)



Suspended Exit Sign



Above: Recessed Exit Box



Wall/Ceiling Mounted Exit Sign



Right: 425mm 32W Ceiling Light



Left: Twin Flood

Ordering Details: Please contact us with your requirements for us to provide a customised solution to meet your system requirements.

NEW i-Monitor Emergency Light Testing system

i-Monitor iPad Application

Traditionally, Users of lighting control and lighting emergency testing systems have struggled with a lack of an intuitive graphical user interface, resulting in systems being difficult to visualise, harder to access, and often requiring additional paper drawings and grouping tables to be maintained to keep the system up to date and allow changes to be made.

After speaking with our customers we have developed the new i-Monitor iPad™ application (App) which provides an intuitive Graphic User Interface (GUI), designed to provide clear and simple “at a glance” visualisation, commissioning and management of the Emergency Lighting testing system.

i-Monitor also provides the following functionality giving greater management of a system:

- At a glance system status information
- System diagnostic information
- Alert messages and colour coding of status graphics
- Configurable automatic testing schedule
- Logging of the last 11 Monthly Function Tests and 5 Annual Duration Tests
- Results sent to a printer for hard copy records (Apple AirPrint™ compatible)
- Results may also be emailed (Internet connectivity required)

Our aim is to give our customers a better solution for their lighting control and management by providing:

- Intuitive user interfaces
- User friendly tools for energy management, helping to reduce the energy consumed by a building's lighting
- Out of the box tools and reporting for functions such as routine emergency lighting tests
- Live remote reporting of faults and failures using email and automated work sheets
- High levels of customer focused technical support and site commissioning
- Ongoing routine maintenance and support packages for the life of the system

Emergency Lighting Test Switch

PRODUCT FEATURES

- Dimensions: 86mm(W) x 86mm(H) x 19mm(D)
- Material: Flame retardant ABS
- Weight: 0.14Kg
- Compliance: EMC - 89/336/EEC LVD-73/23/EEC
- Suitable for maintained & non-maintained luminaires

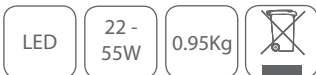


PRODUCT CODE	PRICE	DESCRIPTION
E/CH/ELTS	£149.50	Surface mounted test switch

Conversion Pack for LED Panel Lights

PRODUCT FEATURES

- Dimensions: 45mm(H) 220mm(W) 105mm(D)
- Power consumption: 22-55W
- Weight: 0.95g
- Compliance: BS EN 60598-2-22

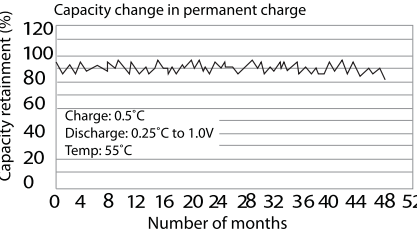
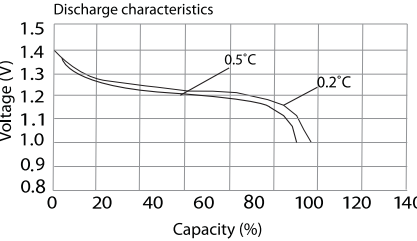
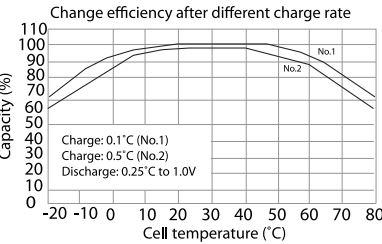
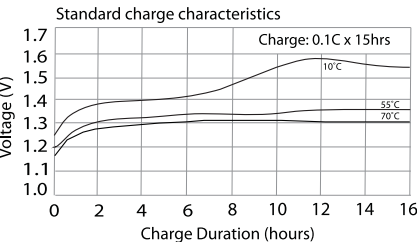


PRODUCT CODE	PRICE	DESCRIPTION
E/LED/PANEL/M3/MODULE	£128.00	3 hour 26-50W LED panel light emergency module

NiCd Batteries

PRODUCT FEATURES

- Available exclusively from channel safety systems
- High quality 4.0Ah nickel cadmium batteries
- Complete with connector and lead
- 1.2V per cell
- 55°C high temperature
- Dimensions: Each cell 33mmØ x 60mmL (approx)
- Weight: 0.125 Kg per cell
- Compliance: IEC 61951 - 2003 Clause 7.4.2.3
- Endurance test - 3rd party certified



Electrical characteristics per cell

Nominal Voltage (V)	1.20
Nominal Capacity (mAh) @ 25°C	4000
Maximum Continuous Discharge Current (A)	2.4

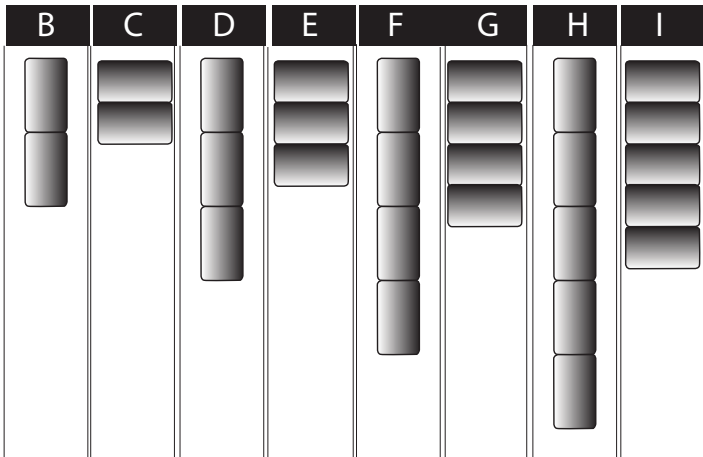
Dimensions per cell

Diameter (mm)	32.5 +/- 0.5
Height (mm)	59 +/- 1.0
Weight (g)	125 approx.

Charge conditions	Time	Temp	Charge (mA)
Standard	16hrs	0-45°C	400mA (0.1C)
Trickle	24hrs	0-70°C	200mA (0.05C)
Maintenance	∞	0-55°C	200mA (0.05C)

Storage	
Storage Temperature	0 to +25°C

BATTERY CONFIGURATIONS



BATTERY CONFIGURATIONS	PRODUCT CODE	PRICE	DESCRIPTION
A	B/1.2V/4AH/NICD	£6.00	NiCd 4.0Ah High Temperature D Cell Tags
B	B/2.4V/4AH/NICD	£11.00	NiCd 2 Cell 4.0Ah High Temperature D Cell Leads
C	B/2.4V/4AH/NICD/S	£10.50	NiCd 2 Cell 4.0Ah High Temperature D Cell Leads Side-By-Side
D	B/3.6V/4AH/NICD	£16.00	NiCd 3*4.0Ah High Temperature D Cell Leads
E	B/3.6V/4AH/NICD/S	£16.00	NiCd 3 Cell 4.0Ah High Temperature D Cell Leads Side-By-Side
F	B/4.8V/4AH/NICD	£21.00	NiCd 4 Cell 4.0Ah High Temperature D Cell Leads
G	B/4.8V/4AH/NICD/S	£21.00	NiCd 4 Cell 4.0Ah High Temperature D Cell Leads Side-By-Side
H	B/6V/4AH/NICD	£27.00	NiCd 5 Cell 4.0Ah High Temperature D Cell Leads
I	B/6V/4AH/NICD/S	£27.00	NiCd 5 Cell 4.0Ah High Temperature D Cell Lead Side-By- side

Static Inverters

PRODUCT OVERVIEW

The significant advantage of using a Static Inverter System for emergency lighting is that it allows the use of a wide range of normal functional or decorative mains luminaires as emergency fittings. The system eliminates the need for a separate low voltage system or self-contained luminaire emergency lighting installation.

Our Static Inverter Systems are able to provide the following input and output configurations:

- Single Phase Input : Single Phase Output
- Three Phase Input : Single Phase Output
- Three Phase Input : Three Phase Output

On Mains failure, the system converts DC power from the central battery to AC output. Our systems allow the use of our modern energy efficient luminaires, while our on-line 'NO BREAK' inverter systems enable the use of high-pressure discharge lighting.

STATIC INVERTER SYSTEMS FOR EMERGENCY LIGHTING

A totally integrated, energy efficient cost-effective and unobtrusive solution for all Emergency Lighting situations:-

- Passive Standby
- Active Standby
- No-Break for ALL lighting loads including high pressure discharge
- All systems can be configured 1:1, 3:1 or 3:3
- Integration with our complementary products for Emergency Lighting

PASSIVE STANDBY

Our low cost flexible Passive Standby Static Inverter System is ideal for use with fluorescent and incandescent lighting sources. Traditional technology provides proven reliability with one of the lowest component counts in the industry. Low heat output, high efficiency (typically greater than 95% AC-AC).

Conforms with all current relevant harmonised European standards.

ACTIVE STANDBY

"Active Standby" is our constantly running, off load, Static Inverter which can be monitored for function at all times – reassuring to know that the system will work when an emergency load is applied.



NO-BREAK

We manufacture a "No-Break" Emergency Lighting Static Inverter System that guarantees there will be no changeover switching of the supply to the load on mains failure. The load is totally unaffected by supply variation and is constantly fed with stabilised, smoothed and conditioned power.

Central Battery Systems

PRODUCT OVERVIEW

Channel can supply a comprehensive range of systems of which just a small selection is shown here. Channel can provide engineered solutions tailored to customers specific requirements. Central Systems offer solutions where all power charging circuits and batteries are centrally located and all luminaires are connected via protected cabling.

OPTIONAL EXTRAS

- Unique design cubicles allow easy access for installers
- Removable covers enable installation in confined space
- Separate battery and charger compartments
- Removable charging chassis in case of modification
- Contractors to BS5424 or BS764
- Battery options: Flat Plate Lead Acid, Plante Lead Acid, Nickel Cadmium, Valve Regulated Sealed Lead Acid
- 24v, 50v, 110v DC variants
- Wide range of Slave Luminaires



HEALTH AND SAFETY

When lead acid and nickel cadmium wet cells are being charged they give off a potentially explosive mixture of oxygen and hydrogen. Always ensure adequate ventilation when installing equipment in confined areas and display signs warning against smoking and naked flames.

To find out more information on our static inverters and central battery systems, please contact a member of our sales team on 0845 884 7000 or email sales@channelsafety.co.uk



GENERAL AND
COMMERCIAL LUMINAIRES

Fresh out of the wrapping!

We are pleased to enhance our exciting range of lights with several new models, Pimlico (page 30), an LED round bulkhead with emergency & microwave option, the Pimlico also has a chrome trim available.

The Falcon range (page 30) of die cast wall packs offers a range of cost effective robust cast exterior lights. If you prefer a round exterior vandal resistant light, then our Typhoon range fits the bill (page 31). The Typhoon range can also have an emergency option added.

The slimline Rome range (page 31) offers an ideal solution where ceiling depth is limited, the Rome range also benefits from an emergency power pack option.

Do we need emergency lighting?

Yes. This is a primary life safety system which is required to assist the occupants of any premises to evacuate in the event of an emergency. Emergency Lighting can and does save lives. It should be remembered that if artificial lighting is installed in the work place, then Emergency Lighting is a mandatory requirement. Premises requiring emergency lights include:

Offices & shops	Premises that provide care
Community halls	Schools
Pubs, clubs & restaurants	Hotels & Hostels
Factories & warehouses	Marquees & tents
Common areas in houses of multiple occupations.	

Why do we need it?

The installation of a minimum level of emergency lighting is a legal requirement following assessment of both fire risk and means of escape. According to The Fire Precaution (workplace) regulations,

Emergency routes and exits must be indicated by signs, and emergency routes and exits requiring illumination shall be provided with emergency lighting of adequate intensity in the case of failure of their normal lighting.

EMERGENCY LIGHTING DESIGN PROCEDURES DETERMINE REQUIREMENTS

- Verify escape routes.
- Establish position of fire alarm call points and fire fighting equipment.
- Establish position of fire and safety signs.
- Investigate potential hazards on escape routes.
- Establish open areas.
- Establish requirements for external escape lighting.
- Locate lifts, moving stairways, toilets, control rooms, covered car park.
- Investigate need for standby lighting.
- Establish areas of low risk for location of central power system.
- If a central battery unit is used, please ensure there is adequate space and ventilation.

DESIGN OF ILLUMINANCE

- Position emergency lighting on plans to cover points of emphasis.
- Verify mounting heights of illuminaries.

Continued...

- Investigate possible deterioration of luminaire light output due to dirt and dust.
- Check voltage and possible voltage drop.
- Check voltage and possible voltage drop.
- Determine mode of operation.
- Choose emergency lighting luminaires.
- Obtain detailed photometric data of luminaires.
- Design scheme to the minimum illuminance required by the EN.

Update on WEEE Scheme

Guidance updates on how lighting industry producers should decide if products are B2C (Household) or B2B (Non-Household) have been issued by the Government.

Previous classification was largely based on the route to market, whether B2B or B2C – mainly, sales through retailers were B2C and sales through other channels such as, electrical wholesalers, were B2B. The new guidance now says Producers in the lighting industry should use the nature of the product as the basis for the route to market.

Products designed specifically for businesses should be classified as B2B – and those that are designed for both businesses and consumers are to be classified as B2C.

Update on WEEE Scheme continued...

There are different ways to apply for each different category of equipment – examples of these can be found in the BIS guidance. It is down to the Producer in the lighting industry to make their own assessment of their products and ensure they are targeted at the right consumer.

The guidance on lamps and luminaires will divide as lamps are more generic and interchangeable than luminaires. Luminaires currently of the WEEE regulations should remain classified as B2B, but the guidance suggests the following products could be considered as 'dual use' and are out of scope of the regulations until 2019.

- Downlights and spotlights of a domestic scale
- Batten fittings
- Domestic scale decorative fittings
- Corridors/bulkhead luminaires of a domestic scale
- Any luminaires currently considered as B2C

Emergency luminaires should always be classified as B2B and it is recommended that all lamps (led and traditional forms) are classified as B2C except in the following circumstances:

- Stadium lighting
- LED cinema projectors
- Lamps designed for industrial applications

Incandescent lamps remain out of scope of the WEEE regulations – the BIS guidance covers all products declared since 2015.

Estante

PRODUCT OVERVIEW

The new Estante LED under cupboard lighting range is available in 300mm and 500mm strip lengths and each strip comes complete with adhesive strips and screws for fixing. A range of complimentary accessories are available for you to install your own bespoke under cupboard, shelf or cove lighting system.

Using the latest LED technology Estante provides a comfortable light distribution and an ideal solution for work space, task and accent lighting in either residential or commercial applications.

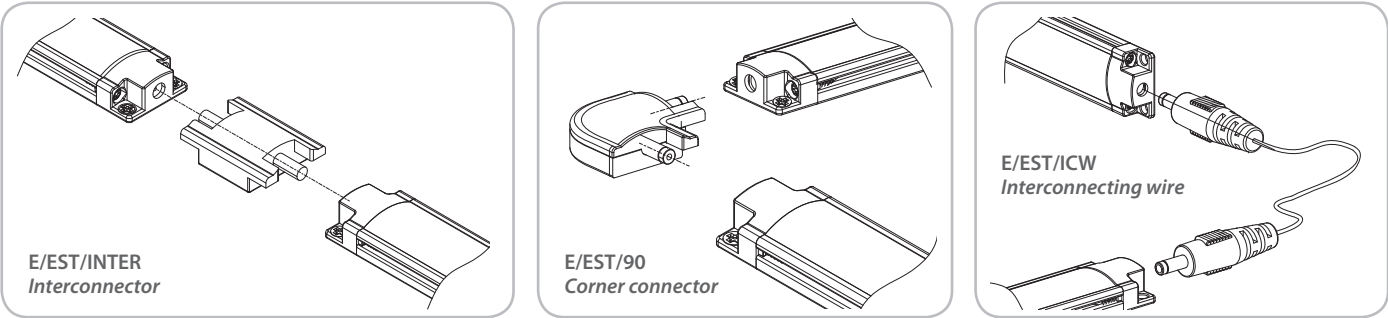
Set your imagination free and find new and innovative ways to create unique lighting designs in your home or establishment!

PRODUCT FEATURES

- Create modern task lighting in cupboards, wardrobes, under floating shelves and cabinets
- Available in 300mm and 500mm strip lengths
- Easy connectors and 90 degree corner connectors available to allow for installation around corners and longer length cupboard units up to 2 metres
- Long life LED technology with high brightness SMD3528 LED's
- Provides a comfortable light distribution that eliminates shadows
- Manufactured with an aluminium housing allowing for good heat dissipation
- Ultrathin and aesthetically pleasing fitting suitable for residential, commercial and industrial applications
- IP 20 Rated

CONNECTION OPTIONS

For the 30W driver you cannot exceed a length of 2 metres.
For the 15W driver you cannot exceed a length of 1.2 metres.



PRODUCT CODE	PRICE	DESCRIPTION
E/EST/300/3000	£10.35	Estante - 300mm under cupboard lighting strip 3.4W 3000K (Warm White) Comes complete with adhesive strip and screw.
E/EST/300/4000	£10.35	Estante - 300mm under cupboard lighting strip 3.4W 4000K (Cool White) Comes complete with adhesive strip and screw.
E/EST/500/3000	£14.75	Estante - 500mm under cupboard lighting strip 5.4W 3000K (Warm White) Comes complete with adhesive strip and screw.
E/EST/500/4000	£14.75	Estante - 500mm under cupboard lighting strip 5.4W 4000K (Cool White) Comes complete with adhesive strip and screw.
E/EST/PSU/15W	£12.95	Estante - 12V 15W Power supply with mains and 3.5mm DC lead (1.5m)
E/EST/PSU/30W	£16.75	Estante - 12V 30W Power supply with mains and 3.5mm DC lead (1.5m)
E/EST/INTER	£1.50	Estante - Interconnector used to join two lengths of lighting strip
E/EST/90	£1.85	Estante - 90 degree corner connector used to join two lengths of lighting strip
E/EST/SW	£11.30	Estante - Under cupboard lighting switch
E/EST/PIR	£11.30	Estante - Under cupboard lighting PIR detector
E/EST/ICW	£1.50	Estante - Under cupboard lighting inter connecting wire used to join two lengths of lighting strip 210mm long



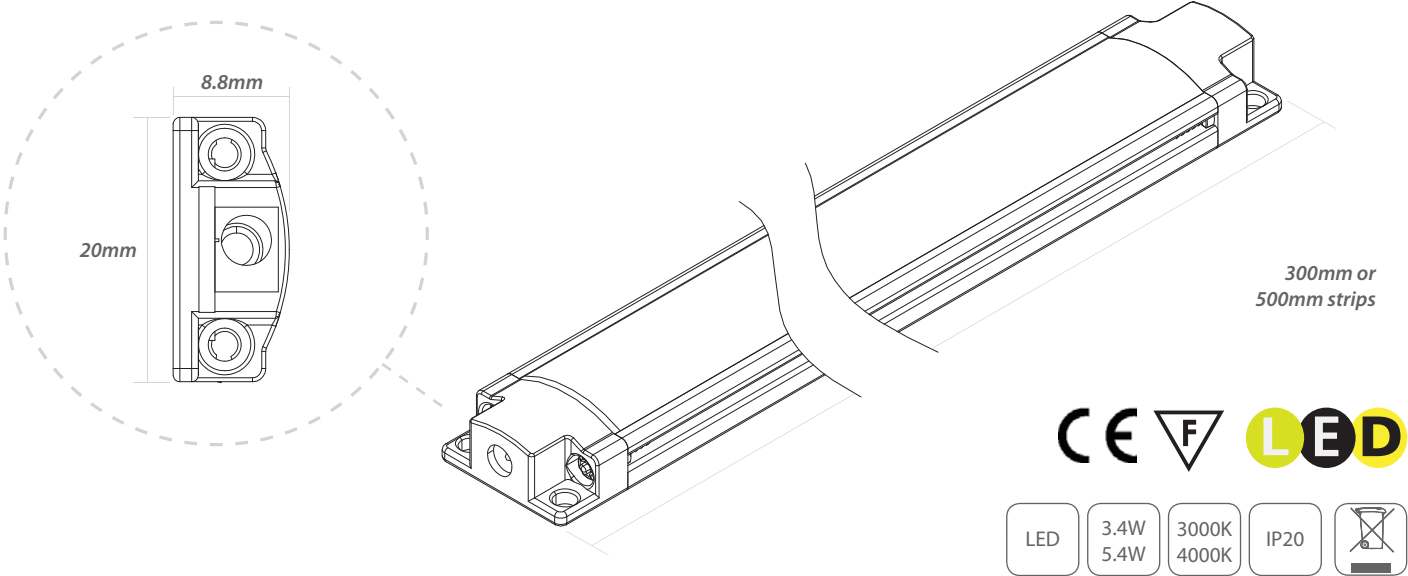
Fixture fitted with Estante under cupboard lighting PIR detector



Estante under cupboard lighting strip

Estante

PRODUCT DIMENSIONS



Pinto

PRODUCT OVERVIEW

The Pinto LED downlight range is available in 12W, 20W or 30W versions. All fixtures are manufactured with aluminium housings allowing for better heat dissipation. Fitted with the latest SMD LED technology, the Pinto downlights are an eco-friendly luminaire option - allowing the end user to benefit on substantial energy savings over compact fluorescent downlights and now come with emergency options!

PRODUCT FEATURES

- 12W, 20W & 30W versions
- Long life SMD LED technology
- IP20 Rated
- Modern contemporary design
- Quick-fit clip system & Cost effective in installation time
- Substantial savings compared with compact fluorescent options
- 85° Beam angle (Half light intensity)

TYPICAL APPLICATIONS

Commercial areas, such as Hotels & Restaurants, Halls of residence, Galleries, Office space and many more!



DESIGN GUIDE: How many Pintos per room?

The tables below show the approximate number of downlights required to achieve an average of 500* lux; and calculations are based on a ceiling height of 2.8m and a working plane of 0.75m.

ROOM DIMENSIONS				
	2m x 3m	2m x 4m	2m x 5m	2m x 6m
12W	8	9	12	12
20W	4	6	6	8
30W	3	3	4	6
	2m x 7m	2m x 8m	2m x 9m	2m x 10m
12W	15	16	20	25
20W	8	9	12	12
30W	6	6	8	8
	3m x 3m	4m x 4m	5m x 5m	6m x 6m
12W	9	15	20	30
20W	6	8	12	16
30W	4	6	8	12
	7m x 7m	8m x 8m	9m x 9m	10m x 10m
12W	42	48	63	72
20W	24	30	35	42
30W	15	20	24	30

* These tables should be used as a guide only. They do not take into account other factors that may affect results, such as surface textures or windows. If you require further information regarding a specific site please contact us.

E/PINTO/12W	£35.25	Pinto Eco - 12w White LED Downlight : 930lm : CRI > 80 : Colour temperature 4000 K
E/PINTO/20W	£47.00	Pinto Eco - 20w White LED Downlight : 1600lm : CRI > 80 : Colour temperature 4000 K
E/PINTO/30W	£70.75	Pinto Eco - 30w White LED Downlight : 2500lm : CRI > 80 : Colour temperature 4000 K

EMERGENCY VERSIONS

E/PINTO/EM/PP	£61.75	Pinto - Emergency Pack 12W & 20W Lamps
E/PINTO/EM/PP/30W		Pinto - Emergency Pack- 30W Lamp
E/PINTO/12W/EM	£29.00	Pinto - 12W Emergency LED downlight : 780 lm : 4000K : Comes c/w 500mm cable & green charge LED
E/PINTO/20W/EM	£42.00	Pinto - 20W Emergency LED downlight : 1300 lm : 4000K : Comes c/w 500mm cable & green charge LED
E/PINTO/30W/EM	£46.00	Pinto - 30W Emergency LED downlight : 2200 lm : 4000K : Comes c/w 500mm cable & green charge LED



Image above shows side profile of Pinto 12W Ø179mm (cut out Ø160mm)



Image above shows side profile of Pinto 20-30W Ø231.6mm (cut out Ø210mm)



Image above shows Pinto Face on



SoHo

PRODUCT OVERVIEW

The SoHo and Mini SoHo LED luminaire is a true 2D - 16W and 28W replacement and boasts a high lumen output giving it a top tier market performance. Now with the added benefit of corridor function (microwave versions).

Finished with a white base and a high light transmission polycarbonate diffuser which is held securely in place by a single clip system. Now available in a mini version!

PRODUCT FEATURES

- SoHo Dimensions: 325mm(Ø) 134mm(D)
- Mini SoHo Dimensions: 240mm(Ø) 100mm(D)
- Light source: Epistar LED
- Colour Temperature: 5000K
- Power consumption: 12W & 21W Circuit Watts
- Typical power saving: 35-40% over conventional 2D 16W & 28W luminaires
- Material: Polycarbonate base, high light transmission polycarbonate diffuser
- IP Rating: IP65
- Mains or emergency 3 hour maintained and microwave options available
- Weight: SoHo -1.45 Kg | Mini SoHo - 1.2 Kg
- Compliance: BS EN 60598-2-22
- Now with 'corridor function' (microwave option only)



PHOTOMETRIC SPACING DATA (1 lux)

Mounting height	↔	↔	↔	↔
2.5m	4.3	10.00	10.00	4.3
4m	4.8	11.40	11.40	4.8



MINI SOHO	PRICE	DESCRIPTION
E/SOHO/MINI	£50.00	Mini SoHo - 12W mains version : 1000 lm
E/SOHO/MINI/M3	£71.50	Mini Soho - 12 W 3 hour emergency version
STANDARD SOHO		
E/SOHO	£74.00	SoHo - 20W mains version : 2100 lm
E/SOHO/M3	£102.50	SoHo - 20W mains 3hr emergency version : 2100 lm
E/SOHO/MW	£93.50	SoHo - 20W mains complete with microwave sensor : 2100 lm- Corridor function
E/SOHO/M3/MW	£125.00	SoHo - 20W mains 3hr emergency version complete with microwave sensor : 2100 lm- Corridor function
BATTERIES		
B/BATT/SOHO	£12.00	Battery for SoHo
B/BATT/SOHO/MINI	£12.00	Battery for SoHo Mini

Now with Corridor Function

- The CorridorFUNCTION ensures that light is produced only when actually needed. This saves energy usage & possible light pollution.
- When a person enters a corridor or room, the light will come on/ increase to full brightness.
- When the person leaves the corridor/room, a presence detector will dim the light after a preset period. After a further preset period, if no movement is detected the light will switch off completely.
- The light also incorporates a daylight sensor so it only illuminates if the ambient light is below a pre-set level.

The setting available are:

Distance (sensitivity) setting

The detector has a maximum range of 10M. Distance detected range can be adjusted to 100%, 75%, 50% & 0% of the maximum range (approx 6m radius mounted at 3m height)

Hold Time Setting

The 'Hold time' is the period the lamp remains at 100% once movement has ceased. The sensor can be adjusted to 5s, 30s, 60s, 5min, 10min, 20min and 30min.

Daylight Setting

Day light value can be adjusted to 2 lux, 10 lux, 50 lux and disabled. If you choose 'Disabled' then the light will operate all the time no matter how bright the ambient light level is.

Stand-By Period (corridor function)

This is the time period the light will remain at the dimmer light level. Once the chosen time has elapsed the light will turn off. This can be over ridden so the light remains at the dimmed level until movement is detected.

Stand-by Dimming Level

This is the level the light dims to once movement has ceased & the hold time setting has elapsed, this can be set to 10%, 20%, 30% or 50% of thefull light level.

NEW Pimlico

PRODUCT FEATURES

- Light source: LED
- Power consumption: 8-14W
- Material: Polycarbonate base, opal diffuser
- Colour Temperature: 4000K
- Emergency and Microwave options available
- Available with white (standard), or a chrome trim available
- IP Rating: IP65



PRODUCT CODE	PRICE	DESCRIPTION
E/PIMLICO/8W	£65.00	Pimlico 8w LED round bulkhead. Polycarbonate Housing and diffuser White trim. 560lm 4000K. IP65 Dia:270mm. Depth: 85mm
E/PIMLICO/14W	£68.00	Pimlico 14w LED round bulkhead. Polycarbonate Housing and diffuser White trim. 1100lm 4000K. IP65. Dia:330mm. Depth:75mm
E/PIMLICO/14W/MW	£90.00	Pimlico 14w LED round bulkhead.With Microwave sensor Polycarbonate Housing and diffuser. White trim. 1100lm 4000K. IP65. Dia:330mm. Depth:75mm
E/PIMLICO/14W/M3	£145.00	Pimlico 14w LED round bulkhead. 3 hour maintained emergency. Polycarbonate Housing and diffuser. White trim.1100lm 4000K. IP65. Dia:330mm. Depth:75mm
E/PIMLICO/14W/M3/MW	£195.00	Pimlico 14w LED round bulkhead. 3 hour maintained emergency with microwave sensor . Polycarbonate Housing and diffuser.White trim. 1100lm 4000K. IP65. Dia:330mm. Depth:75mm
E/PIMLICO/TRIM/CH	£14.00	Pimlico 14w chrome trim

NEW Falcon

PRODUCT FEATURES

- Light source: LED
- Colour Temperature: 4000K
- Power consumption: 11W, 22W and 35W
- Material: Aluminium base, polycarbonate diffuser
- IP Rating: IP65
- Vandal Resistant
- Photo Cell Option (22W)



E/FALCON/11



E/FALCO/22 & 35



PRODUCT CODE	PRICE	DESCRIPTION
E/FALCON/11	£51.00	Falcon 11w LED Wall Pack. 700Lm 4000k with eyelid -Polycarbonate housing and diffuser. 155mm x 205mm x 73mm (WxHxD)
E/FALCON/22	£122.00	Falcon 22w LED Wall Pack. 1600Lm 4000k with eyelid -Polycarbonate housing and diffuser. 255mm x 305mm x 101mm (WxHxD)
E/FALCON/22/PC	£140.00	Falcon 22w LED Wall Pack. With Photocell. 1600Lm 4000k with eyelid -Polycarbonate housing and diffuser. 255mm x 305mm x 101mm (WxHxD)
E/FALCON/35	£160.00	Falcon 35w LED Wall Pack. With Photocell. 2800Lm 4000k with eyelid -Diecast housing and Polycarbonate diffuser. 265mm x 300mm x 130mm (WxHxD)

NEW Rome

PRODUCT FEATURES

- Light source: LED
- Power consumption: 10W, 15W and 20W
- Material: Aluminium base, polycarbonate diffuser
- Colour Temperature: 3000K (4000k option on 10W)
- 90° beam angle
- Emergency option available
- IP Rating: IP20
- Remote driver



Depth: 28mm



PRODUCT CODE	PRICE	DESCRIPTION
E/ROME/10W/3K	£48.00	Rome 10W LED Round downlight. 880lm. 3000K. IP20. CRI: Ra80. Die Cast Aluminium Compact slim fitting. Anti Glare Matt white finish Dia: 140mm Cutout: 125mm
E/ROME/10W	£48.00	Rome 10W LED Round downlight. 880lm. 4000K. IP20. CRI: Ra80. Die Cast Aluminium Compact slim fitting. Anti Glare Matt white finish Dia: 140mm Cutout: 125mm
E/ROME/15W	£60.00	Rome 15W LED Round downlight. 1325lm. 4000K. IP20. CRI: Ra80. Die Cast Aluminium Compact slim fitting. Anti Glare Matt white finish Dia: 180mm Cutout: 165mm
E/ROME/20W	£80.00	Rome 20W LED Round downlight. 1890lm. 4000K. IP20. CRI: Ra80. Die Cast Aluminium Compact slim fitting. Anti Glare Matt white finish. Dia: 230mm Cutout: 210mm
E/PINTO/EM/PP	£48.00	Emergency 3 hour maintained power pack for Rome range of lights

NEW Typhoon



PRODUCT FEATURES

- Light source: LED
- Power consumption: 14W
- Material: Aluminium base, polycarbonate diffuser
- Emergency option available
- Colour Temperature: 4000K
- Vandal Resistant



PRODUCT CODE	PRICE	DESCRIPTION
E/TYP/LED	£168.00	Typhoon 14w LED round bulkhead. Die cast aluminium base with polycarbonate diffuser. Black. 950lm 4000K. IP65. Dia:351mm. Depth:142mm
E/TYP/LED/GRI	£168.00	Typhoon 14w LED round bulkhead. With grille Die cast aluminium base with polycarbonate diffuser. Black. 800lm 4000K. IP65. Dia:351mm. Depth:142mm
E/TYP/LED/EYE	£168.00	Typhoon 14w LED round bulkhead. With eyelid. Die cast aluminium base with polycarbonate diffuser. Black. 475lm 4000K. IP65. Dia:351mm. Depth:142mm
E/TYP/M3/GT	£131.00	Emergency 3 hour maintained gear tray for Typhoon range

Trino™

PRODUCT OVERVIEW

New to our July edition we are pleased to bring you even higher light output options in our 5 ft Trino range, with the added benefit of options for 3 hour emergency and microwave fittings.

Channel's Trino LED Tri Rated fittings offer an IP65, dust & vapour proof range of high brightness, long life & energy efficient lights.

Trino fittings are suitable for many applications where a low energy solution is required. They are highly durable, easily installed, and provide an impressive light output. Constructed from high impact polycarbonate and benefit from stainless steel diffuser clips & a stainless steel suspension kit.

Available in 5 foot, 6 foot, single or twin, mains only or emergency LED array options, the Trino offers a range to meet most requirements, for even greater flexibility, an additional microwave option is available.



PRODUCT FEATURES

- Designed for surface mounted applications in commercial and Industrial applications
- Ideal replacement for linear fluorescent fittings
- Light source: Epistar 2835 multi LED array
- Colour Temperature: 4000K
- Material: Polycarbonate base & high light transmission diffuser
- IP Rating: IP65
- Mains or emergency 3 hour maintained and microwave options available
- Dimensions: Please see Trino™ section drawings on opposite page
- Trino™ Single - Power consumption: 52W, 60W & 65W Circuit Watts
- Trino™ Twin - Power consumption: 52W, 60W & 65W Circuit Watts
- Trino™ Single - Lumen output: 4500 lm & 5400 lm
- Trino™ Twin - Lumen output: 9000 lm & 11000 lm



Trino™ Single Fitting

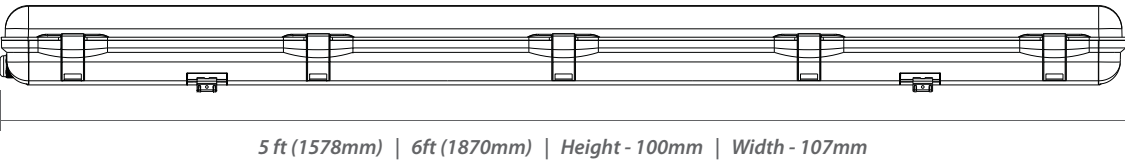
5FT SINGLE VERSIONS		
E/TRI/152/LED/2	£85.75	Trino - 5ft Single Tri-proof LED, 52W : 5990lm : 4000 K : IP65
E/TRI/152/LED/M3/2	£146.75	Trino - 5ft Single Tri-proof LED, 52W : 5990lm : 4000 K : IP65 (3 hour Maintained emergency version)
5FT SINGLE HIGH LIGHT OUTPUT VERSIONS		
E/TRI/160/LED/HO	£108.75	Trino - 5ft Single High Light Output Tri-proof LED, 60W : 6500lm : 4000 K : IP65
E/TRI/160/LED/HO/M3	£169.00	Trino - 5ft Single High Light Output Tri-proof LED, 60W : 6500lm : 4000 K : IP65

Image showing Trino™ clip system

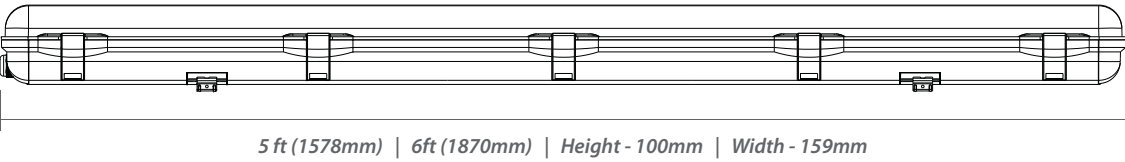


Trino™

TRINO™ SINGLE



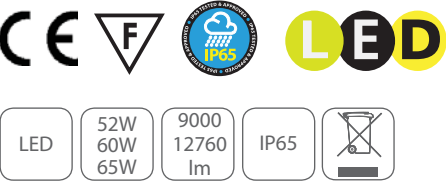
TRINO™ TWIN



TRINO™ - FIXING & SUSPENSION KIT

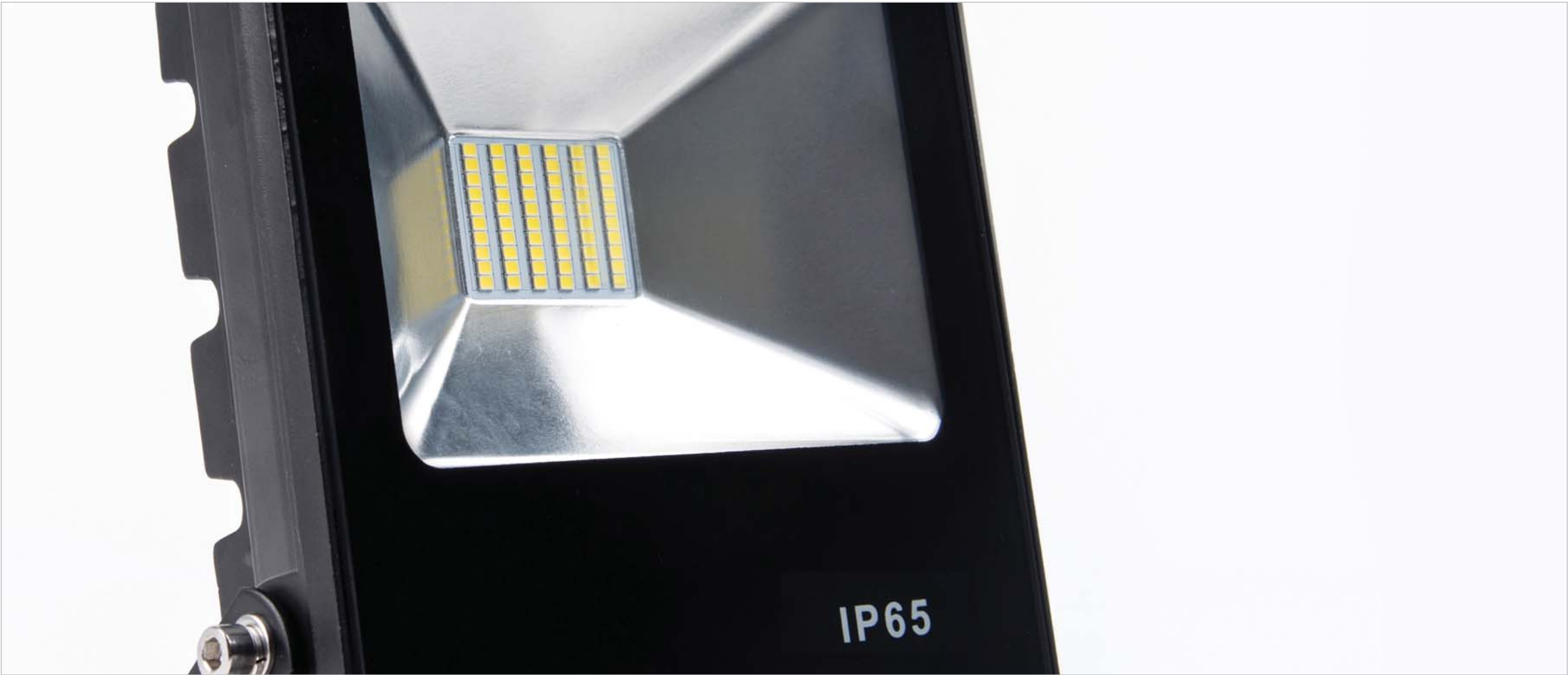


All Trino™ fittings come supplied with all necessary fixings.



Trino™ Double Fitting

5FT TWIN VERSIONS		
E/TRI/252/LED/2	£147.75	Trino - 5ft Twin Tri-proof LED, 2x 52W : 11400lm : 4000 K : IP65
E/TRI/252/LED/M3/2	£207.50	Trino - 5ft Twin Tri-proof LED, 2x 52W : 11400lm : 4000 K : IP65 (3 hour Maintained emergency version)
E/TRI/252/LED/MW/2	£197.75	Trino - 5ft Twin Tri-proof LED, 2x 52W : 11400lm : 4000 K : IP65 (Microwave version)
E/TRI/252/LED/M3/MW/2	£252.50	Trino - 5ft Twin Tri-proof LED, 2x 52W : 11400lm : 4000 K : IP65 (Microwave and 3 hr Emergency version)
5FT TWIN VERSIONS HIGH LIGHT OUTPUT VERSIONS		
E/TRI/260/LED/HO	£169.75	Trino - 5ft Twin High Light Output Tri-proof LED, 2x 60W : 12760lm : 4000 K : IP65
E/TRI/260/LED/HO/M3	£229.25	Trino - 5ft Twin High Light Output Tri-proof LED, 2x 60W : 12760lm : 4000 K : IP65 (3 hour Maintained emergency version)
E/TRI/260/LED/HO/MW	£209.75	Trino - 5ft Twin High Light Output Tri-proof LED, 2x 60W : 12760lm : 4000 K : IP65 (Microwave version)
E/TRI/260/LED/HO/M3/MW	£269.25	Trino - 5ft Twin High Light Output Tri-proof LED, 2x 60W : 12760lm : 4000 K : IP65 (Microwave and 3 hr Emergency version)



Overview of Product Range

We offer solutions in our security lighting range that give the end user product solutions for residential, commercial or industrial applications.

The latest MotionPro™ 3 range utilises passive infrared technology to detect heat radiation of moving objects, and the fittings boast smaller footprints and thinner profiles than their predecessors.

The finish of the updated MotionPro™ 3 fittings have been updated to a high end black steel alloy and have benefited from a price reduction.

The line up...



Best Practice Guidance - Requirements

Security lighting should provide the minimum level of illumination necessary to light a property or area. Poorly designed security lighting may not always act as a real deterrent to crime as glare may cast areas into permanent dark shadow, creating dark spots that may potentially assist intruders.

Best practice in Security lighting can differ dramatically for Domestic, Commercial and Industrial installations. For example, for domestic installation, current Building control regulations and the Clean Neighbourhood and Environment act 2005 should be considered.

The choice of luminaire specified in commercial & industrial applications will depend on factors such as; mounting height, the area to be illuminated, the type of lamp used & the type of luminaire.

Design Characteristics

Maximum lighting levels, usually defined on the ground, would be around 20-30 lux. Ideally, security lights should be controlled by photoelectric switches.

For domestic and small scale security lighting, the ILE Guidance Notes recommend passive infrared detectors.

Light nuisance from domestic security lights can be remedied by relocating the offending light, by readjusting its aim or by fitting a screen to control the spread of light.

Controls

- Control lighting with passive infrared (PIR) switches on the minimum time-setting – avoid sensor settings that can be tripped by road or foot way users.
- Timers adjusted to the minimum can reduce the operating time of the light
- A separate switching detector can be used on some models to sense the movement of intruders on the property.
- Lighting should be directed down and mounted as low as possible to minimize light escape above the property boundary height (such as the hedge or wall) and hence reduce the direct lighting of adjacent premises.
- Luminaires and detectors should be aimed to detect and light people on the property.
- Balance levels of light with other lighting in and around the site to avoid glare and light spill as well as dark spots.
- Consider the use of alternative security measures, such as an inside light that is on a time-switch, or CCTV.

System Design Guide

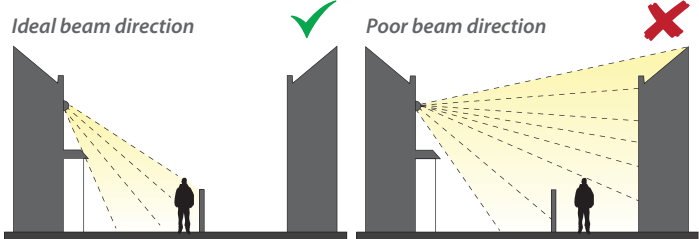
Floodlights and Detectors should be aimed to only detect and light people on your property. They should not detect a person or animals walking down the street! Floodlights fitted with timers should be adjusted to the minimum to reduce the operation of the light.

General Advice

- Minimise the level of illumination as high-powered lights are rarely necessary in domestic situations and can cause glare.
- Lighting can be shielded
- Special optics are designed to ensure full flow of light over the lit area from each floodlight and can be aimed facing downwards while still spreading light over a wide distance. The reflector becomes less visible to onlookers resulting in low glare to the surrounding locality.
- Vegetation may help screen the light at certain times of year provided the movement of vegetation itself does not trigger the activation of the light.
- Consider a curfew time of 23.00 after which lighting levels should be further restricted.

Should you require assistance on your security lighting needs, please contact our Technical support team on 0845 884 7000.

Security Lighting Installation Guide



NEW

MotionPro™ 3



NEW

MotionPro™ 3

PRODUCT OVERVIEW

The MotionPro™ 3- now boasts a smaller footprint than its predecessors and is finished in a high end black aluminium alloy. The 30W and 50W versions now incorporate Epistar LED technology and enhanced lumen output is achieved. The 70W+ versions operate on Bridgelux technology and its finish is updated to the black steel alloy.

PRODUCT FEATURES

- Steel mounting bracket, aluminium body construction and a robust design - shock and vibration resistant
- Low running cost & low maintenance
- IP Rating: IP65
- No minimum 'on/off time' required
- Long life LED technology / Power factor ≥0.95
- Instant re-strike
- High brightness, white light incorporating Epistar and Bridgelux® LED components
- Good colour rendition
- Eco-friendly - no lead, mercury, argon, xenon or krypton gases
- PIR and remote PIR sensor options available



PRODUCT FEATURES

30W FEATURES

- Dimensions: 220mm(W) 195mm(H) 65mm(D)
- Lumen output: 2100 lm / Weight: 2.0Kg
- Equivalent to 70W sodium, 200W Halogen

50W FEATURES

- Dimensions: 270mm(W) 225mm(H) 65mm(D)
- Lumen output: 3500lm / Weight: 3.0Kg
- Equivalent to 150W sodium, 500W Halogen

70W FEATURES

- Dimensions: 360mm(W) 275mm(H) 85mm(D)
- Lumen output: 4900lm / Weight: 4.00Kg
- Equivalent to 150W sodium, 75W metal halide, 500W Halogen

100W FEATURES

- Dimensions: 360mm(W) 275mm(H) 85mm(D)
- Lumen output: 7000lm / Weight: 4.00Kg
- Equivalent to 250W sodium, 150W metal halide

150W FEATURES

- Dimensions: 430mm(W) 310mm(H) 85mm(D)
- Lumen output: 10500lm / Weight: 6.5Kg
- Equivalent to 210 metal halide

200W FEATURES

- Dimensions: 560mm(W) 386mm(H) 106mm(D)
- Lumen output: 14000lm / Weight: 9Kg
- Equivalent to 400W metal halide



30W & 50W PIR Versions



PRODUCT CODE	PRICE	DESCRIPTION
E/FLOOD/LED/30W/3	£49.95	MotionPro LED 30W floodlight
E/FLOOD/LED/50W/3	£69.95	MotionPro LED 50W floodlight
E/FLOOD/LED/70W/3	£136.00	MotionPro LED 70W floodlight
E/FLOOD/LED/30W/PIR/3	£69.95	MotionPro LED 30W floodlight with PIR
E/FLOOD/LED/50W/PIR/3	£91.25	MotionPro LED 50W floodlight with PIR
E/FLOOD/LED/100W/3	£155.00	MotionPro LED 100W floodlight
E/FLOOD/LED/150W/3	£185.00	MotionPro LED 150W floodlight
E/FLOOD/LED/200W/3	£350.00	MotionPro LED 200W Floodlight



Choosing an Access Control System

- Put very simply, Access Control manages who goes in and out of your premises. It can be as simple as a Video Kit, an Audio Only Kit, a single Electronic Keypad, or as complex as a Multi way system.
- How many doors/buildings do you need to secure? *You may not need to secure every door, but you may wish to set up a system with "zones".*
 - Do you need different levels of access to certain areas such as the Server Room or Cash Office? *Most businesses, large or small, have certain areas that require limited access.*
 - Do you need to control who goes out as well as in? *For example a school will want to protect pupil safety by ensuring that children don't leave the premises unattended, as well as needing to prevent unauthorised visitors from entering.*
 - How will people exit in the event of an emergency or power cut?
 - How will you allow legitimate visitors access, will you speak to them via an intercom?

Access Control System - special requirements

- Channel Safety Systems can supply systems utilising Fobs, Cards and Codes.
- *A pin code is generally accepted as being the lowest level of security as you can never really be certain who has the code. Fobs and cards are easily added and removed from a system meaning that it is quick and easy to deny access to ex-employees. A photo can be added to a card for use as an ID card. Proximity fobs are easy to use as they work on being in close vicinity to the reader*

Access Control System - special requirements...

For high security areas - access can be by Card, Fob, PIN code or all. Flexible programming provides complete control over access to your premises. Systems can be designed with DDA in mind and integration with existing Fire Alarm Systems may also be possible.

Call on 0845 884 7000 and we will be happy to discuss your unique requirements, whether they are simple or highly complex. Our quotations are free and designed to match your individual needs.

Accessibility

The visual and audible communication with your front entrance will confirm who your visitor is and allow you to decide whether to grant access or not.

A button on the monitor, or phone enables you to operate an electric lock, releasing the door to allow your visitor to enter. In cases where people of limited mobility require access, a door operator can also be activated.

Where access needs to be granted to staff or tenants, a keypad or proximity reader can be added. This allows authorised visitors to enter a PIN number or present a proximity card or tag, and if valid then access will be granted automatically.

Peace of mind:-

Answering your door from a location inside your premises is convenient and secure. The ability to see and hear who is at your door before making a decision to answer it is very reassuring; especially to those with limited mobility, or those who are alone and not comfortable answering the door.

Multi tenancy

For apartment blocks or commercial environments where one or more entrances are shared, we offer a modern and robust digital door station with LCD display. The visitor is able to type in the number and select the resident they are visiting to request entry.

Using the modular solutions offered in the following 6 pages; our audio system allows up to 18 apartments/offices. Our standard multi-way video systems allows up to 999 apartments/offices to be controlled.

Both our Audio and Door Access systems are offered in kit solutions for ease of specifying but in line with our video systems bespoke solutions can be created upon request.

All systems offered have the ability to operate any kind of electronic door lock, activate an automatic door operator, or have a tradesmans buzzer incorporated into the system.

Need some assistance?

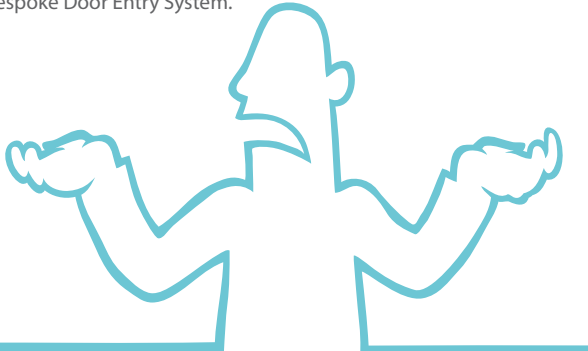
We understand the individuality that each project may have, so if you need a helping hand in putting together a bespoke video door entry system for your premises, give our technical department a call on 0845 884 7000 or email technical@channelsafety.co.uk

What's on Offer?

Channel offers a fully comprehensive range of both Video, Audio and Access Control Door Entry Systems.

Our audio product lines are offered in kit solutions, which come complete with all necessary equipment and installation guides - yet full technical support is offered to our customers should you require a helping hand in setting up your system.

With a high demand for bespoke video systems for multiple dwellings, Channel Safety Systems offer a complimentary design service to meet your project requirements, offering a varied choice of wiring methods, depending on the system size and configuration. So, don't be dismayed if your system requirement is not listed in our catalogue - we can work alongside you to produce a bespoke Door Entry System.





PRODUCT OVERVIEW

Our Entritech multi way video door entry system offers the ideal solution for multi apartment applications from 2 – 999 ways.

Utilising standard RG45 plug in connectors, the Entritech Multi way video door entry system is simple to install and commission. The Entritech Multi way door station comes with a card/tag proximity reader as standard allowing simple access for the residents, or if preferred the unit can be programmed to accept a four digit PIN code which can be unique for each apartment.

If necessary a concierge/guard station can also be added to the system & if required systems can be networked to form a single multi building system.

Simple & quick installation is achieved using a single BUS cable and network splitter units, the system incorporates in built fault protection.

The Entritech Multi Way Video Door Entry system benefits from 177mm (7") colour monitor available in a gloss black or white surround.

Monitor features

- 177mm(7") colour screen.
- Ultra slim (only 22mm)
- Available in black or white
- Touch-sensitive buttons
- Adjustable volume, colour, brightness
- Resolution 1440(H)x234(V)
- Multiple ringtones
- Allows you to view the camera at any time.
- Surface mounted
- Dimensions W220xH125xD22mm

Right: D/ENT/V/PAN/MULTI
CCD HD Multiway
Camera panel

130mmW x 350mmHx 55mmD



Outdoor Station Features

- CCD 72° Camera
- Night light IR illumination & compensation down to 0.1 lux
- Card/FOB reader for easy access
- Digital access code option
- 60 second talk time
- 100mW speaker output for clear speech
- Working temperature -20°C ~ +50°C
- Flush mounted
- Digital Keypad with automatic night illumination

Left: D/ENT/VM/HF/7/MULTI



PRODUCT CODE	PRICE	DESCRIPTION
D/ENT/VPAN/MULTI	£595.00	CCD HD Multiway Camera panel
D/ENT/VM/HF/7/MULTI	£182.00	7 inch TFT LCD Black Multiway screen
D/ENT/VM/HF/7/MULTI/WH	£182.00	7 inch TFT LCD White Multiway screen
D/ENT/SCP/MULTI	£75.00	Short Circuit Protector (4 monitors)
D/ENT/ULU/MULTI	£75.00	Unlocking module- 1 required per door
D/ENT/MDU/MULTI	£75.00	Multi Door module- controls 4 doors
D/ENT/KT10-B	£4.75	Proximity FOB- Blue
D/ENT/AUDIO/PSU	£32.50	Power supply for lock release
D/ENT/PSU/MULTI	£35.00	Power supply 18V 3A
S/E60/A	£26.50	Relay to trigger lock release PSU
D/ENT/RIM	£27.25	Yale type 12V DC fail secure rim release
D/ENT/MORTICE/FL	£133.25	Dead bolt mortice type 12 DC fail secure - FLUSH only
D/ENT/SS/EB	£32.75	Stainless Steel exit button
D/ENT/WH/ED	£26.25	White Exit button
F/CH/EDR/FLEX	£29.25	Green emergency door release unit
D/ENT/MAG	£72.25	600lbs magnetic door lock
D/ENT/MAG/MON	£88.00	600lbs magnetic door lock - Monitored
D/ENT/MAG/BACKET	£29.00	Z&L Bracket for magnetic locks
D/ENT/GS/MULTI	£395.00	Guard/ Concierge Station

ENTRitech™ - Audio Only



The easy-to-install 5-wire Audio only ENTRitech range has been designed for use within a wide range of applications including residential, commercial & industrial properties. ENTRitech uses up to date technology and is beautifully presented in a modern series of designs supplied in 17 gauge 1.367mm thick stainless steel. **This modular system is supplied in easy to order kit form with flush kit options available from 1 way to 8 way. Please contact us for details.**

PRODUCT FEATURES

- Stainless steel call stations
- Cost effective in installation time and materials
- Encapsulated electronics / IP44 rated call station
- Available in flush or surface mounted versions
- 1 - 9 way systems available to special order



THE KIT OPTIONS...

SURFACE MOUNTED AUDIO KITS WITH EMBEDDED INTERCOM

D/ENT/AUDIO/1	£83.25	1 way audio kit complete with stainless steel 1 button call station, 1 power supply & 1 phone
D/ENT/AUDIO/2	£110.00	2 way audio kit complete with stainless steel 2 button call station, 1 power supply & 2 phones
D/ENT/AUDIO/3	£132.00	3 way audio kit complete with stainless steel 3 button call station, 1 power supply & 3 phones
D/ENT/AUDIO/4	£157.25	4 way audio kit complete with stainless steel 4 button call station, 1 power supply & 4 phones
D/ENT/AUDIO/6	£193.00	6 way audio kit complete with stainless steel 6 button call station, 1 power supply & 6 phones
D/ENT/AUDIO/8	£259.25	8 way audio kit complete with stainless steel 8 button call station, 1 power supply & 8 phones

FLUSH MOUNTED AUDIO KITS WITH EMBEDDED INTERCOM

D/ENT/AUDIO/1/FL	£111.75	Flush 1 way audio complete with stainless steel 1 button call station, power supply & 1 phone
D/ENT/AUDIO/2/FL	£122.50	Flush 2 way audio complete with stainless steel 2 button call station, power supply & 2 phones
D/ENT/AUDIO/4/FL	£156.50	Flush 4 way audio complete with 4 button call station, power supply & 4 phones
D/ENT/AUDIO/6/FL	£195.50	Flush 6 way audio complete with 6 button call station, power supply & 6 phones
D/ENT/AUDIO/8/FL	£282.00	Flush 8 way audio complete with 8 button call station, power supply & 8 phones

BUILD YOUR OWN...

FLUSH MOUNTED AUDIO - CALL STATION WITH EMBEDDED INTERCOM

D/ENT/FL/1	£41.75	Flush master unit with stainless steel 1 module unit complete with embedded intercom (up to 6 way)
D/ENT/FL/2	£48.00	Flush master unit with stainless steel 2 module unit complete with embedded intercom (up to 12 way)
D/ENT/FL/3	£65.50	Flush master unit with stainless steel 3 module unit complete with embedded intercom (up to 18 way)

SURFACE MOUNTED AUDIO - CALL STATION WITH EMBEDDED INTERCOM

D/ENT/MASTER 1	£33.75	1 Module stainless steel unit surface mounted complete with embedded intercom (up to 6 way)
D/ENT/MASTER 2	£62.00	2 Module stainless steel unit surface mounted complete with embedded intercom (up to 12 way)
D/ENT/MASTER 3	£62.00	3 Module stainless steel unit surface mounted complete with embedded intercom (up to 18 way)

BUTTON MODULES

D/ENT/AUDIO/KP	£75.50	Digital keypad module
D/ENT/BU01	£18.00	1 Button module
D/ENT/BU02	£19.00	2 Button module
D/ENT/BU03	£20.00	3 Button module
D/ENT/BU04	£21.25	4 Button module
D/ENT/BU06	£25.25	6 Button module

HANDSET

D/ENT/AUDIO/HS	£18.75	Audio only handset complete with door release button
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ENTRitech™ - Audio Only



D/ENT/AUDIO/1
D/ENT/AUDIO/1/FL

1 way audio kit c/w stainless steel 1 button call station, 1 power supply & 1 phone



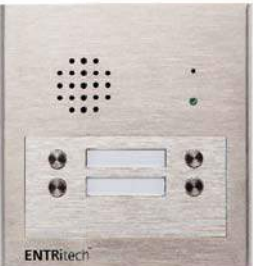
D/ENT/AUDIO/2
D/ENT/AUDIO/2/FL

2 way audio kit c/w stainless steel 2 button call station, 1 power supply & 2 phones



D/ENT/AUDIO/3

3 way audio kit c/w stainless steel 3 button call station, 1 power supply & 3 phones



D/ENT/AUDIO/4
D/ENT/AUDIO/4/FL

4 way audio kit c/w stainless steel 4 button call station, 1 power supply & 4 phones



D/ENT/AUDIO/6
D/ENT/AUDIO/6/FL

6 way audio kit c/w stainless steel 6 button call station, 1 power supply & 6 phones

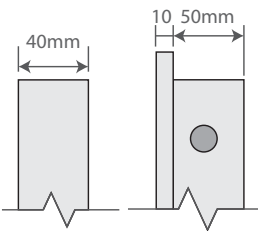
D/ENT/MASTER/3
3 Module Unit
with... 3x
D/ENT/BU06
6 Button module

D/ENT/MASTER/3
2 Module Unit *with...*
D/ENT/AUDIO/KP
Digital keypad module &...
D/ENT/BU06
6 Button module

D/ENT/AUDIO/HS

DEPTH PROFILES

SURFACE MOUNTED FLUSH MOUNTED



MAKE YOUR OWN UNIQUE SYSTEM!

It is possible to achieve different configurations by selecting either flush or surface mounted master units (shown under specifiers options) and choosing your desired button modules.

Need some assistance?

We understand the individuality that each project may have, so if you would like a hand in putting together a bespoke audio system for your premises, give our technical team a call on 0845 884 7000 or email technical@channelsafety.co.uk

ENTRitech™ - Door Access Control Only

PRODUCT OVERVIEW

The ENTRitech door access system range offers simple, versatile and cost effective kit solutions for your convenience. Each kit includes a 12Vdc 2Amp boxed power supply with battery back up and a digital keypad suitable for up to 21 individual codes. To allow emergency or internal release of the lock a break glass or push button can be added to this system.

PRODUCT FEATURES

- Simple to install
- Robust construction
- IP65 Proximity reader option
- Suitable for up to 21 individual codes
- Stainless steel keypad option

PRODUCT DIMENSIONS

ACCESS KEYPAD	PROXIMITY READER
• Height: 137mm	• Height: 116mm
• Width: 93mm	• Width: 75mm
• Depth: 55mm	• Depth: 22mm



KIT 1- Pin



D/ENT/DA/KIT1 CONTAINS:-

- 12Vdc 2Amp boxed power supply with battery back up
- Digital Keypad with up to 21 individual codes
- Exit button
- Green break-glass unit
- Electric lock release

KIT 2- Pin



D/ENT/DA/KIT2 CONTAINS:-

- 12Vdc 2Amp boxed power supply with battery back up
- Digital Keypad with up to 21 individual codes
- Exit button
- Green break-glass unit
- Magnetic lock
- Z&L bracket

KIT 3- Proximity



D/ENT/DA/KIT3 CONTAINS:-

- 12Vdc 2Amp boxed power supply with battery back up
- Proximity reader (up to 2000 users)
- Exit button
- Green break-glass unit
- Key fob tokens x 10 pieces
- Hand held programmer
- Electric lock release

KIT 4- Proximity



D/ENT/DA/KIT4 CONTAINS:-

- 12Vdc 2Amp boxed power supply with battery back up
- Proximity reader for use with up to 2000 users
- Exit button
- Green break-glass unit
- Key fob tokens x 10 pieces
- Hand held programmer
- Magnetic lock
- Z&L bracket

KIT 8- Pin & Proximity



D/ENT/DA/KIT8 CONTAINS:-

- 12Vdc 2Amp boxed power supply with battery back up
- Combined keypad & proximity reader
- Exit button
- Green break-glass unit
- Key fob tokens x 10 pieces
- Magnetic lock

“Access control offers a secure, convenient, flexible and cost effective way of controlling who has access to your building and when that access is allowed. Access control gives organisations the security they need.”

ENTRitech™ - Door Access Control Only

What to consider when choosing an Access Control System?

- How many doors/buildings do you need to secure?
- Do you need different levels of access to certain areas?
- Do you need to control who goes out as well as in? How will people exit in the event of an emergency or powercut?
- How will you allow legitimate visitors access, will you speak to them via an intercom?
- Is managing Time and Attendance important to your business?

Need some assistance?

We understand the individuality that each project may have, so if you would like a hand in putting together a bespoke access system for your premises, give our technical team a call on 0845 884 7000 or email technical@channelsafety.co.uk

D/ENT/DA/KP/1
Stainless steel door access keypad



D/ENT/EPX10
Standalone proximity reader



D/ENT/KEY/PROX/800
Door access keypad



D/ENT/KT10-B



D/ENT/STD-PCPS



F/CH/EDR/FLEX



D/ENT/ WH/ED



D/ENT/SS/EB

KITS

D/ENT/DA/KIT1	£300.75	Key pad door access kit 1: including PSU, digital keypad, exit button, green break glass unit and electric lock release
D/ENT/DA/KIT2	£346.50	Key pad door access kit 2: including PSU, digital keypad, exit button, green break glass unit, magnetic lock and Z&L bracket
D/ENT/DA/KIT3	£260.25	Proximity reader door access kit 3: including PSU, exit button, green break glass unit, electric lock release, 10 key fobs and a hand held programmer
D/ENT/DA/KIT4	£346.50	Proximity reader door access kit 4: including PSU, exit button, green break glass unit, magnetic lock, Z&L bracket, 10 key fobs and a hand held programmer
D/ENT/DA/KIT8	£428.75	Proximity reader door access kit 8: Combined keypad & proximity reader including PSU, exit button, green break glass unit, magnetic lock and 10 key fobs

ACCESSORIES

D/ENT/DA/KP/1	£155.50	Stainless steel door access keypad
D/ENT/EPX10	£152.00	Standalone proximity reader
D/ENT/KEY/PROX/800	£216.00	Door access keypad / Proximity Reader
D/ENT/KT10-B	£5.00	Blue proximity tag
D/ENT/STD-PCPS	£2.50	Proximity card
D/ENT/EPX10-HP	£42.75	Hand held programmer for use with proximity reader
D/ENT/SS/EB	£32.75	Stainless steel exit button
D/ENT/WH/ED	£26.25	White exit button
D/ENT/RIM	£27.25	Rim type 12V DC fail secure rim release
D/ENT/MORTICE/FL	£133.25	Dead bolt mortice type 12 DC fail secure - FLUSH only
D/ENT/PSU	£25.25	12V DC 1amp PSU
F/CH/EDR/FLEX	£29.25	Green emergency door release unit
D/ENT/MAG	£72.25	600lbs magnetic door lock
D/ENT/MAG/MON	£88.00	600lbs magnetic door lock - MONITORED
D/ENT/MAG/BRACKET	£29.00	Z&L Bracket for magnetic locks
D/ENT/PSU/12V/2A	£102.00	12Vdc 2Amp boxed power supply
B/12V/1.2AH/SLA	£11.50	12 Volt 1.2Ah sealed lead acid battery (1 block)
D/ENT/AUDIO/PSU	£35.25	12V 1.5Amp dual output power supply (no battery back up)



Analogue High Definition Professional Kit Solutions

We have designed a high quality, competitively priced kit solution that creates a great security solution in residential, commercial or industrial premises. The beauty of our latest kit solution; iCapture- AHD is that it allows remote viewing of your CCTV system 24 hours a day, 7 days a week and from anywhere in the world. You can give yourself peace of mind & capture incidents when they occur via any internet connected personal computer or smartphone.

Points to Consider Before Purchasing!

Before purchasing a CCTV system, Channel urges that each business should conduct a thorough site survey into the areas needing surveillance. It is worth remembering that if people can see your cameras they will also be able to identify any potential 'blind spots' – so making note of highly sensitive and less sensitive areas is advised. This exercise will determine how many cameras you are going to need – (to limit expenses you could consider adding dummy cameras to your system that you feel are less sensitive). where is the camera going? Indoors or outdoors? If outdoors use the weatherproof guide to choose what kind of an IP rating your camera requires. Once you have drawn your conclusions as to how many cameras you need you can then select your DVR. DVR's generally come in 4 channel, 8 channel, 16 channel options – buying more channels than you require is not necessarily a bad thing as it ensures the option of adding to your system in the future.

An Overview of AHD CCTV Recorders (DVRs)

There is a large variety of DVR's (Digital Video Recorders) available in the market place and we understand trying to buy the right system for your premises is no easy task and can differ hugely for each situation. With this in mind we have put together this overview to the different types of systems available so that you can make a more informed decision. DVR's are available as standalone or PC based units. Channel offers only standalone AHD CCTV systems as we believe that they are more reliable and less likely to fail. (This is based on the fact that PC based units are more likely to fail due to overloading your hard drive with images and keeping the PC operating 24 hours a day). All good DVR systems should have sufficient hard drive memory built into the unit for you.

What Type of Cable does an AHD System Use?

AHD CCTV cameras are connected to DVRs using the same type of coaxial cable (shotgun) as traditional analog CCTV cameras. AHD cameras can also use UTP (unshielded twisted pair) cable with video baluns to run cable up to 320 meters with CAT5 cable. This make the iCapture CCTV kit an ideal replacement for existing analogue systems.

How does AHD Compare to traditional analogue CCTV?

The AHD format allows much greater resolutions, up to full HD at 1920x1080 pixels or 2.4MP. A 720p AHD camera is roughly equivalent to a 1000TVL analogue camera.

IP Rating

Ingress protection is measured using an IP Rating, if a camera doesn't state an IP rating you can consider it is for internal use only. So for using CCTV cameras outdoors, we would recommend a very minimum IP rating of 55, but preferably 65 and above.

IP CCTV (Internet Protocol)

In the traditional analogue CCTV application, security cameras capture an analogue video signal and transfer that signal over coax cable to the Digital Video Recorder (DVR). Each camera may be powered by plugging in the power supply right at the camera or by using RG59 Shotgun cable which bundles the video and the power cables. The DVR converts the analogue signal to digital, compresses it, and then stores it on a hard drive for later retrieval. Intelligence is built into the DVR to handle such things as scheduling, motion detection, and digital zoom. Monitors for viewing the video are connected to the DVR, or it can be set up to publish over an internal network for viewing on PCs.

IP CCTV (Internet Protocol) continued...

The DVR can also be set up to broadcast over the Internet and can add password protection and other features. When broadcasting over the Internet, the video for all of the cameras is transmitted as one stream (one IP address). On an IP system each camera captures an analogue image but immediately converts it to digital inside the camera. The digital video stream is then broadcast over the local area network (LAN) using Ethernet (CAT5 or CAT6) cable. Power is supplied to the cameras through the ethernet cable via Power-Over-Ethernet (POE) adapters built into the cameras and at the (POE enabled)NVR or switch. The ethernet cable for each camera is plugged into the NVR or switch which feeds into the network hub. As with all network devices, some set-up needs to be done for each network camera to set up its IP address and other identifying attributes. A Network Video Recorder (NVR) performs the same function as the DVR in analogue system. It captures each camera's signal, compresses, and records it. The main difference is that the video feeds are digital and much higher resolution. Software built into the NVR provides features such as intelligent search and zoom, etc. The NVR combines the video streams from the cameras and handles the broadcast over the LAN and internet for local and remote viewing.

NEW iCapture™ with wi-fi (App Connect) for remote viewing

PRODUCT OVERVIEW

Introducing the new AHD CCTV surveillance system with wi-fi access to enable remote viewing. The kits comes complete with 8 Channel AHD DVR as standard, your choice of four 720p AHD cameras, 4x shotgun camera leads, power supply unit, and wi-fi dongle.

PRODUCT FEATURES

- Reduced installation time
 - One Step on the Internet: Can connect through all types of networks via the cloud service, to allow remote monitoring easily & conveniently without any complicated setting up
 - Our 8 Channel supports 720P recording on all channels.
 - Main and Sub Stream: Supports main stream and extra stream encode synchronously. Main stream is for local storage to maintain the image quality, extra stream is for network real-time transmission, to easily solve the bottleneck problem of bandwidth
 - Mobile monitor: Supports all kinds of mobile monitor (iPhone, iPad, Android system)
 - Browsers: Supports IE browser
- Inputs/Outputs 8 AHD video inputs, BNC & VGA Video output
HDMI Video Output, 4 Audio inputs, 1 audio output, router output, RS485 (PTZ), relay input/switch inputs.

WHAT'S INCLUDED IN THE KITS?

- 1x 8 Channel AHD DVR with integrated 1TB Hard Drive
- 4x 20m Shotgun Camera Cables
- 4x AHD 720P Cameras
- 1x PSU (Power Supply Unit)
- 1x Splitter Lead
- 1x HDMI lead
- 1x wi-fi Dongle



Remote viewing on your smartphone



Kit 1 - T/CCTV/KIT/1/AHD



Kit 2 - T/CCTV/KIT/2/AHD



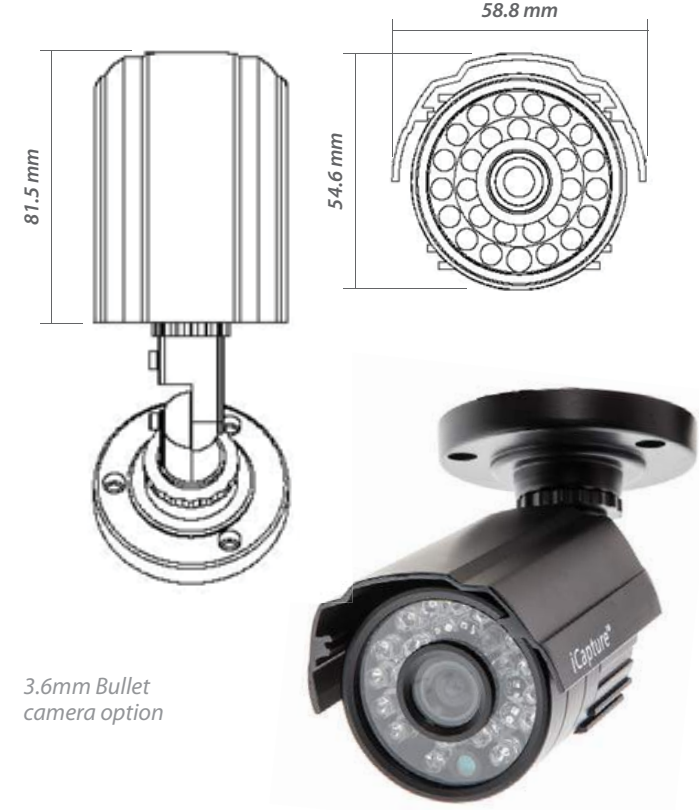
Kit 3 - T/CCTV/KIT/3/AHD

PRODUCT CODE	PRICE	DESCRIPTION
T/CCTV/KIT/1/AHD	£455.00	iCapture AHD CCTV Kit 8CH DVR with 4 Black Bullet 720P AHD Cameras with 2m leads, PSU and WIFI dongle - 1TB hard drive
T/CCTV/KIT/2/AHD	£455.00	iCapture AHD CCTV Kit 8CH DVR with 4 Black Dome 720P AHD Cameras with 20m leads, PSU, and WIFI dongle - 1TB hard drive
T/CCTV/KIT/3/AHD	£455.00	iCapture AHD CCTV Kit 8CH DVR with 2 Black Bullet & 2 Black Dome 720P AHD Cameras with 20m leads, PSU and WIFI dongle - 1TB hard drive

NEW iCapture™ with wi-fi (App Connect) for remote viewing

THE CAMERA OPTIONS...

3.6mm Lens Bullet & Domes



3.6mm lens Bullet & 3.6mm lens Dome Camera Features

- 1/3" CMOS 720p **Ultra high resolution** CMOS camera
- High video quality
- Day/Night (ICR), 2DNR, AWB, AGC, BLC
- Max IR LEDs Length 30m Bullet/
- Aluminium Housing, IP66 Rated
- Weight: Bullet 450g ~ Dome 395g

CAMERA SPECIFICATIONS

Image sensor	1/3" CMOS
Horizontal Resolution	720p
Scanning System	Interlaced
Electronic Shutter Speed	PAL:1/50 ~ 1/10000; NTSC:1/60 ~ 1/10000
Min. Illumination	0 Lux (IR on) / 0.1 Lux (IR off)
S/N Ratio	≥ 60 dB
Video Output	1.0Vp-p (75Ω/BNC)
LENS	
Lens	3.6mm
Max Aperture	F1.4
Angle	80° (55°)

“ iCapture AHD cameras are suitable for a wide variety of applications; such as, offices, industrial units, retail establishments, supermarkets & domestic premises. ”

CAMERA FEATURES

IR LEDs Amount	36 pcs infrared LEDs bullet 24 pcs infared LEDs Dome
Max. IR LEDs Length	30m bullet 20m dome
Day/Night	Auto (ICR)
Backlight Compensation	BLC/HLC/DWDR
White Balance	Auto
Gain Control	Auto
Noise Reduction	2D

GENERAL

Power Supply	DC12V/500mA
Power consumption	<6W
Working Environment	-10°C ~ + 50°C, 10% ~ 90%
Ingress Protection	IP66

iCapture™ AHD Complete professional CCTV range



The iCapture™ AHD CCTV range has been specifically designed for the professional electrician, iCapture™ features comprehensive, state of the art high quality equipment suitable for various commercial, industrial and domestic applications.

The range is offered in a choice of ultra high resolution kits providing exceptional value for money and further scope to add to the system. Furthermore, system components can be purchased individually to create a customised security solution.

iCapture™ is easy to install and all relevant components are included in the kit boxes. For the connection to the internet instructions are supplied.

Features

- Kits come with an 8 channel DVR and 1TB hard drive as standard, all necessary connection leads and 4 cameras. This allows scope to add additional cameras if required.
- All cameras in the kit solutions are 720p AHD. This ensures consistent quality and superior imagery.
- All systems offer remote control and viewing over your computer system or smart phone subject to an additional connection.
- Universal day/night cameras with IR (infrared) illumination which allows a viewing distance of around 20m and above.
- The IP66 cameras offer a high degree of weatherproofing. The concealed cable within the housing offers additional anti-vandal protection.
- DVRs come in either 8 or 16 channel and offer full VGA & HDMI outputs, they come complete with Western Digital hard drives. Both DVRs offer 4 recording options - continuous / scheduled / motion / sensor and record in 720p & 960h.
- Viewing of images can be in quad sequence or single channel viewing. The system allows for individual channel setup for recording and display. The supplied mouse allows for easy setup.

Legal Issues

Some key points to note when installing your CCTV surveillance system are:-

- Domestic use – No restriction, but cameras should be positioned so that they don't overlook neighbours if possible.
- Business use – All systems must be registered with the Information Commissioners office on line at www.ico.org.uk/for_organisations/data_protection/registration
- If members of the public can be recorded then warning signs must be used. This includes visitors to business premises.
- Audio – Must not be used.

iCapture Lens Guide

This lens table guide displays the viewing angle and the focal distance for CCTV lenses. As the viewing distance increases, your angle of view decreases, therefore if you selected a 3.6mm lens over a 15mm lens you may not be able to view objects that are far away but you would have a wider field of view.

A = Lens Size B = Angle of View (Degrees) C = Max. Distance a Number Plate May Be Read From in Metres

CCD Size (Inch)	A	B	C
1/3"	3.6mm	68	5
1/3"	4.0mm	62	5
1/3"	6.0mm	43	10
1/3"	8.0mm	33	14
1/3"	12.5mm	21	20
1/3"	15mm	17	23
1/4"	12mm	17	20
1/4"	50mm	6	35
1/4"	12mm	17	20

FEATURES



12 month
guarantee



Power
supply
included



Easy to install

RECORDING OPTIONS



Schedule &
Continuous



Alarm



Motion
Detection

VIEWING OPTIONS



Remote
viewing



Local
network



Mobile

iCapture™ DVR's



If you would like to specify your own iCapture™ AHD CCTV system, or should you wish to add to your existing system - all products are listed individually for your convenience.

8 & 16 CHANNEL DVR FEATURES

- Anti-tamper
 - Multiple record & alarm modes
 - Intelligent motion trigger recording
 - Motion Detection: selectable area & sensitivity
 - Remote alarm notification via email images
 - Remote mobile phone monitoring (3G Network is required, supported phones Blackberry, iPhone, Google android)
 - Variable Frame rate & quality level
 - Support 720p/ 960H/ CIF
 - Supports remote live viewing
 - Supports USB mouse operation
 - Supports hiding & switching channels
 - System auto recovery after power reconnected
 - Video loss alarm function
 - IR remote control & USB 2.0
 - Password protection function
 - Privacy area option
 - Upto 6TB hard drive 8 channel
 - Upto 8TB hard drive 16 channel
- Full HD 1080p recording
 - AHD, TVI and 960H record formats
 - HDMI monitor output
 - CMS Software supplied
 - IoS and Android Apps
 - Camera inputs: 16
 - Hard Drive size: Up to 6TB
 - Recording Speeds: 200ips @ 1080p, 400ips @ 720p
 - Playback speed: 200ips @ 1080p, 400ips @ 720p
 - Live viewing real time: 25ips
 - Monitor output: HDMI / VGA
 - Telemetry: RS485- Pelco P/D
 - Alarms: 4 in 1 out
 - Audio: 1 in and 1 out (G.711A)
 - USB: 1 front 1 rear
 - Network Port: 10/100/1000
 - Viewing Options: 9 Single / Quad / 9 / 16
 - Mobile Viewing: Android, iPhone (4 split live view, 1 Search, 1 PTZ), Mobile Notification on Alarm (iPhone)
 - Hard wired link to internet router



T/CCTV/DVR/8/6TB



T/CCTV/DVR/16/2TB

PRODUCT CODE	PRICE	DESCRIPTION
T/CCTV/DVR/AHD/8/2TB	POA	8 Channel AHD/TVI/960H DVR fitted with 2TB hard drive
T/CCTV/DVR/AHD/8/4TB	POA	8 Channel AHD/TVI/960H DVR fitted with 4TB hard drive
T/CCTV/DVR/AHD/8/6TB	POA	8 Channel AHD/TVI/960H DVR fitted with 6TB hard drive
T/CCTV/DVR/AHD/16/2TB	POA	16 Channel AHD/TVI/960H DVR fitted with 2TB hard drive
T/CCTV/DVR/AHD/16/4TB	POA	16 Channel AHD/TVI/960H DVR fitted with 4TB hard drive
T/CCTV/DVR/AHD/16/6TB	POA	16 Channel AHD/TVI/960H DVR fitted with 6TB hard drive
T/CCTV/DVR/AHD/16/8TB	POA	16 Channel AHD/TVI/960H DVR fitted with 8TB hard drive

Analogue AHD CCTV Cameras and DVR

PRODUCT FEATURES

- HD over coax
- Cost competitive
- Full HD & 960H recording
- CMS compatibility with the IP range



PRODUCT CODE	PRICE	DESCRIPTION
T/CCTV/EYE/2.8-12/G	£195.00	Full HD Eyeball Varifocal Grey 2.8-12mm Varifocal- 1080 AHD/960H
T/CCTV/EYE/2.8-12/WH	£195.00	Full HD Eyeball Varifocal White 2.8-12mm Varifocal- 1080 AHD/960H
T/CCTV/DOME/2.8-12/G	£95.00	1.3MP Eyeball Varifocal Grey 2.8-12m Varifocal- 960p/ 960H
T/CCTV/DOME/2.8-12/WH	£95.00	1.3MP Eyeball Varifocal White 2.8-12m Varifocal- 960p/ 960H
T/CCTV/DOME/3.6/G	£85.00	1.3MP Eyeball 3.6mm Varifocal Grey - 960p/960H
T/CCTV/DOME/3.6/WH	£85.00	1.3MP Eyeball 3.6mm Varifocal White - 960p/960H
T/CCTV/INT/2.8-12/WH	£195.00	Full HD Internal Dome 2.8-12mm Varifocal- 1080 AHD/ 960H
T/CCTV/ EXT/ 2.8-12/ WH	£195.00	Full HD External Dome 2.8-12mm Varifocal- 1080 AHD/ 960H
T/CCTV/ BULLET/2.8-12/40m	£125.00	1.3MP Bullet Varifocal White 2.8-12mm Varifocal- 40m IR range
T/CCTV/BULLET/2.8-12/60M	£155.00	1.3MP Bullet Varifocal White 2.8-12mm Varifocal- 60m IR range
T/CCTV/BULLET/6-22/40M	£310.00	Full HD Bullet Varifocal White 6-22mm Varifocal- 60m IR range
T/CCTV/SPEED/DOME	POA	22x (3.9-85.8mm) IR Speed Dome - Pan tilt 200m - 50m IR Illumination- IP66
T/CCTV/SPEED/PSU	POA	12V DC 2 AMP IP66 Power Supply
T/CCTV/DVR/AHD/8/4TB	POA	8 Channel AHD/TVI/960H DVR fitted with 4TB hard drive
T/CCTV/DVR/AHD/8/6TB	POA	8 Channel AHD/TVI/960H DVR fitted with 6TB hard drive
T/CCTV/DVR/AHD/16/2TB	POA	16 Channel AHD/TVI/960H DVR fitted with 2TB hard drive
T/CCTV/DVR/AHD/16/4TB	POA	17 Channel AHD/TVI/960H DVR fitted with 4TB hard drive
T/CCTV/DVR/AHD/16/6TB	POA	18 Channel AHD/TVI/960H DVR fitted with 6TB hard drive
T/CCTV/DVR/AHD/16/8TB	POA	19 Channel AHD/TVI/960H DVR fitted with 8TB hard drive

IP CCTV Cameras and NVR

PRODUCT FEATURES

- Auto Set-up
- Triple Streaming
- 1080P (2.1MP) for great picture quality
- PoE
- Simple installation & setup



IP CCTV Cameras and NVR

PRODUCT CODE	PRICE	DESCRIPTION
T/CCTV/IP/DOME/4MM	POA	IP 4mm Internal Dome with IR- 15mm IR Range- White
T/CCTV/IP/DOME/3-9MM	POA	IP Varifocal 3-9mm Internal Dome with IR- 15mm IR Range- White
T/CCTV/IP/DOME/2.8-12MM	POA	IP Varifocal 2.8-12mm Internal Dome with IR 15mm IR Range- Grey
T/CCTV/IP/DOME/3.6MM	POA	IP 3.6mm Internal Dome with IR- 15mm IR Range- Grey
T/CCTV/IP/BULLET/2.8-12/LR	POA	Long Range IP Varifocal 2.8-12mm Bullet with IR- 25mm IR Range- White
T/CCTV/IP/ BULLET/4MM	POA	IP 4mm Bullet with IR- 15mm IR Range- Grey
T/CCTV/IP/BULLET/2.8-12MM	POA	IP Varifocal 2.8-12mm Bullet with IR- 15mm IR Range- White
T/CCTV/NVR/4/1TB	POA	4 Channel IP NVR fitted with 1TB hard drive
T/CCTV/NVR/4/2TB	POA	4 Channel IP NVR fitted with 2TB hard drive
T/CCTV/NVR/4/4TB	POA	4 Channel IP NVR fitted with 4TB hard drive
T/CCTV/NVR/8/2TB	POA	8 Channel IP NVR fitted with 2TB hard drive
T/CCTV/NVR/8/3TB	POA	8 Channel IP NVR fitted with 3TB hard drive
T/CCTV/NVR/8/4TB	POA	8 Channel IP NVR fitted with 4TB hard drive
T/CCTV/NVR/8/6TB	POA	8 Channel IP NVR fitted with 6TB hard drive
T/CCTV/NVR/8/8TB	POA	8 Channel IP NVR fitted with 8TB hard drive
T/CCTV/NVR/16/4TB	POA	16 Channel IP NVR fitted with 4TB hard drive
T/CCTV/NVR/16/6TB	POA	16 Channel IP NVR fitted with 6TB hard drive
T/CCTV/NVR/16/8TB	POA	16 Channel IP NVR fitted with 8TB hard drive

iCapture™ Accessories



LCD MONITOR		
T/CCTV/MON/21	£384.50	21" LCD Monitor with VGA connector & lead
POWER SUPPLY UNITS		
T/CCTV/PSU/4 WAY	£20.50	Power Supply DC 12V 3A with 1-4 way output connectors
T/CCTV/PSU/5A/5	£76.75	5 Way - 5amp boxed power supply
T/CCTV/PSU/10A/9	£98.25	9 Way - 10amp boxed power supply
T/CCTV/PSU/20A/18	£122.75	18 Way - 20amp boxed power supply
T/CCTV/PSU/1 WAY	£16.50	Power Supply DC 12V 1 Amp single output connector
ACCESSORIES		
T/CCTV/LEAD/20M	£14.50	CCTV Lead (pure copper cable) 20 metres
T/CCTV/SIGN/1	£7.00	A5 Self adhesive window sticker 148mm x 210mm (Warning 24hr CCTV)
T/CCTV/BALUN	£10.25	Transmission device to transmit video signal over un-shielded twisted pair cable (max 330m)
E/CHWG/12	£72.00	Protective wire cage H260mm x W195mm x D325mm
T/CCTV/BNC	£1.00	BNC crimp connectors for use with RG59 coaxial cables
T/CCTV/2M	£1.75	Double female BNC coupler to join pre-made shotgun cables together
T/CCTV/DC2	£5.75	Male & Female power connector for use with CAT 5 cable



What constitutes a fire detection & alarm system?

Fire detection and alarm systems are used to detect and alert occupants in the event of a fire-related emergency. These systems typically use a combination of heat, ionisation smoke, optical smoke and carbon monoxide detection methods.

The most secure, efficient fire detection and alarm system will use several of these types of detectors in conjunction with each other. Each detector is either mains linked or is a wireless / radio device that connects with all other detectors, call points, break glasses and sounders/visual indicator devices in the system. This means that should one detector detect a fire, the message is then relayed to all of the other connected devices.

These types of fire detection system are mains-powered but incorporate a battery backup for when the main power supply fails.

When all alarms and sounders are activated in a fire detection system, it gives the occupants of the premises more time to escape before the exits are blocked or damaged by the fire. Singular alarms will only alert the immediate area rather than the surrounding premises that may also be/become compromised.

Fire deaths have been significantly reduced in recent years through the development of better fire detection systems. As a result, response times have also increased and nuisance activations have been lowered. Advances in fire detection technology mean that modern detectors are safer than ever before.

UK Fire alarm system categories

There are many types of fire alarm systems each suited to different building types and applications. A fire detection system can vary dramatically in both price and complexity, from a single panel with a detector and sounder in a small commercial property to an addressable fire alarm system in a multi-occupancy building. Systems have to protect both buildings and occupants.

The categories of fire alarm systems are L if they are designed to protect life, P to protect buildings and M if they are manual systems.

A guide to Zoning...

- A single zone should not exceed 2,000m² in floor space.
- Where addressable systems are in place, two faults should not remove protection from an area greater than 10,000m².
- A building may be viewed as a single zone if the floor space is less than 300m².
- Where the floor space exceeds 300m² then all zones should be restricted to a single floor level.
- Stairwells, lift shafts or other vertical shafts (non stop risers) within a single fire compartment should be considered as one or more separate zones.
- The maximum distance traveled within a zone to locate the fire should not exceed 60m.

Protocols

Building Service Protocols - With the development of more and more products that need to communicate with each other, in particular products used for building services in sophisticated modern buildings, the need has arisen for protocols to be agreed across a whole range of manufacturers or even entire industries. For instance, the electrical trade has systems for switching large numbers of current-consuming devices, such as lights, by using simple loop wiring and a protocol, rather than long lengths of cables for individual circuits. Examples of such protocols are LonWorks and EIB.

Because such protocols are available for any manufacturer to use, they are often referred to as 'open'. The fire detection industry does not currently use such protocols and the term 'open' has come to mean something different in this particular industry.

Fire Industry Protocols - In the fire detection industry analogue addressable systems use control panels and detectors (and devices such as interfaces) which communicate with each other by means of a protocol.

Types of Protocols

Closed Protocols - Manufacturers of equipment using closed protocols ensure that all elements of their equipment (detectors, panels, call points, interfaces, special detectors such as beam detectors) are perfectly compatible with each other, as it is all designed to use the same language of communication. Closed protocol systems are usually maintained by the system provider.

Types of Protocols Continued...

Open Protocols - Open protocol systems allow for the end user to choose from a wider selection of manufacturers who supply products that talk the same language to communicate to each other. Open protocol systems can be maintained by companies other than the system provider.

The key issue is working out which system is going to be the best long-term investment in terms of ease of maintenance, ongoing support and overall cost.

An open protocol system will give you the freedom to choose precisely the components you want, both now and in the future and does not tie you into potentially lengthy and expensive maintenance and servicing contracts.

Please see pages 58-59 for helpful guides.



A Guide to Fire Alarm Panels & Protocols

As technology continues to evolve, the options for fire detection and suppression systems come with an increasing variety, offering businesses and property owners a welcome - but sometimes confusing choice. Channel's Technical Support Team have designed the quick reference guide below for selecting the correct fire alarm panel for your chosen protocol - however, if you require support on selecting the right system for your installation, contact our sales team 0845 884 7000 or send us an email to sales@channelsafety.co.uk.

	CONVENTIONAL 4-WIRE PANELS			CONVENTIONAL 2-WIRE PANELS		ADDRESSABLE PANELS				WIRELESS PANELS
	C-Tec Economy Fire Panels	Scimitar	GST	Alarm-Sense	Sabre	Firewatch (FW1001)	Firewatch (FW9003)	Firewatch (FW9004)	Ziton	Zerio Plus
Conventional Series 65	✓	✓	✓							
Conventional Sounders	✓	✓	✓	✓	✓	✓	✓	✓		
Conventional GST	✓	✓	✓							
Sabre Detectors					✓					
Sabre Sounders					✓					
Sabre Input / Output Units					✓					
AlarmSense Devices				✓						
XP95 Devices						✓	✓	✓		
Discovery Devices						✓	✓	✓		
Hochiki Esp Devices						✓	✓	✓		
Ziton Addressable									✓	
Nittan Addressable							✓			
Conventional Beam	✓	✓						✓	✓	
Self Adjusting Beam	✓	✓		✓	✓	✓	✓	✓	✓	✓
XP95 Beam						✓	✓	✓		
Vesda Unit with PSU	✓	✓				✓	✓	✓	✓	
Vesda Unit with PSU (XP95)						✓	✓			
Zerio Plus Devices										✓

A Guide to Fire Alarm Panels

Conventional 4-Wire Panels

A Conventional panel employs one or more circuits, connected to sensors wired in parallel. These sensors are devised to dramatically decrease the circuit resistance when the environmental influence on any sensor exceeds a predetermined threshold. In a conventional fire alarm system, the information density is limited to the number of such circuits used.

Conventional 2 Wire Panels

In general 2 Wire Panels are simpler to install - only one circuit per zone is needed to connect all the detectors and sounders, reducing the amount of wiring needed.

Wireless Panels

Wireless technology requires little or no cabling, making the installation process much more efficient and less disruptive to business operation. Typically wireless solutions are best suited to premises where there are limited time periods for work.

Addressable Panels

Addressable panels are usually more advanced than their conventional counterparts, with greater information capacity and control flexibility. Addressable Fire Alarm Control Panels employ one or more Signaling Line Circuits, (usually referred to as loops or SLC loops) - ranging between one and thirty. Depending on the protocol used, a Signaling Line Circuit can monitor and control several hundred devices. Some protocols permit any mix of detectors and input/output modules, while other protocols have 50% of channel capacity restricted to detectors/sensors and 50% restricted to input/output modules.

A typical fire detection installation may resemble...



For full support in designing your fire alarm system, contact sales on 0845 884 7000

KEY

- Fire Alarm Panel

Break Glass Call Point
- Fire Extinguisher

Smoke Detector
- Heat Detector

Sounder / Bell

Complimentary Fire Alarm & Emergency Lighting services

DON'T BE AFRAID OF FIRE!

Did you know that Channel offers a complete Design, Supply & Commissioning service?

Benefit from our FREE Design Service

- Fire Alarm. To BS.5839. Part 1 2002
- Emergency Lighting. To BS. 5266. Part 1/7/8
- Nurse Call Systems
- Disabled Refuge Systems

Channel provides a dedicated design, supply and

commissioning service for Emergency Lighting, Fire Alarm and Assistance. We can offer the Contractor and Wholesaler a comprehensive service.

With nearly 40 years' experience working within these sectors, Channel's knowledge base is extensive and is an invaluable resource for our customers. As Industry standards are ever-changing, we make it our mission to keep abreast of regulatory and legal changes that affect our clients.

As our Territory Managers are based across the UK, we can offer a fast and efficient service for design, site surveys, project management and subsequent commissioning and maintenance services requirements through our strategic partners.

Let the legal onus be on us, not the contractor!

To find out how Channel can benefit you, contact your local wholesaler your dedicated Territory Manager or Internal Account Executive.

Please note that the design service is free on the basis of receipt of order on contract award, we're sure you won't be disappointed!

Fire Alarm & Emergency Lighting Training

How to comply with BS5839 Part 1, 2002 (Fire Alarms) and BS5266 (Emergency Lighting)
Don't miss out on a great opportunity to expand your knowledge and business for FREE!

Channel can offer FREE TRAINING for Electrical Contractors, in conjunction with participating wholesalers.

If you are a wholesaler and you want to offer your customer base this invaluable training session, simply get in touch with your local branch, speak to your Territory Manager or your Internal Account Executive.

You don't have to take our word for it...

From time to time we like to ask our customers for feedback. The following testimonial was given to us from an end user and one whose projects we've been working on for nearly 10 years now!

"The Fire Detection system, designed by Channel is second to none – as a four star establishment, and one that is home to so many special occasions, we cannot experience the annoyance of false fire alarms and as yet..."

It has never let us down!

On the emergency lighting fittings used in the corridors and stairwells – they are as far as light fittings go, unambiguous and fit nicely in with the standard lighting fixtures used. We are delighted with the finished result and confident that we will continue to use Channel products for future development works."

Greg Shaw | General Manager
Old Thorns Manor Hotel Golf & Country Estate

Venue to over 200 weddings and receptions per annum, various golfing events and evening activities, the site has had to remain open for business at all times and ensure any building work is completed around the resorts commitments.

This specific system was specified by Channel as the panels are designed and constructed around proven and reliable microprocessor technology, with an abundance of features to allow for the complex cause and effects programming required on a site of this magnitude.

Over 1,000 Apollo XP95 protocol detection devices

prevent, detect and protect the site and are subject to diligent routine maintenance and servicing.



Working with the Industries leading Manufacturers



APOLLO

Apollo Fire Detectors Ltd is one of the largest independent smoke detector manufacturers in the World. Apollo offers solutions for Analogue Addressable, 2-wire conventional, 4-wire conventional and wireless fire detection devices and alarm systems. Channel's relationship with Apollo has positioned it as a leading systems designer and supplier.

FIKE

Fike Safety Technology Ltd is a globally recognised supplier of products that protect people, critical assets and facilities from hazards such as fire. Fike offers solutions for 2-wire conventional systems.



CRANFORD CONTROLS

Cranford Controls Ltd specialise in the manufacture of audible and visual warning devices along with sounders, beacons and ancillary devices for the fire, security and process control industries.

GST

GST is a leading fire alarm systems and solution provider and is primarily engaged in manufacturing and distribution of Fire Alarm systems, Fire network systems and other fire alarm products.



ZITON

Ziton is one of the world's leading brands in the manufacturing of fire alarm equipment, and Channel are proud to be specialist distributors of the analogue fire device ranges.

SOLO DETECTORS

The Solo range is available in economical and convenient kit forms as well as the added bonus of a range of Detector testing aerosols.



MORLEY

Morley-IAS is one of the world's leading designers of fire alarm control panels and associated equipment for professional fire alarm installers. Morley Fire Alarm Panels are incorporated in our FireWatch range.

NITTAN

Nittan has been at the very forefront of the international fire protection industry since 1954 and now supplies in excess of 500,000 detectors per year. Nittan offers Fire Detection devices for Analogue Addressable and Conventional system.



C-TEC

C-TEC is a leading UK independent manufacturer of quality life safety electronic equipment with a portfolio of products that includes Fire Alarm control panels, Voice Alarm systems, Power Supplies, Nurse Call systems and Audio-Frequency Induction Loop systems.

HOCHIKI

Hochiki is one of the Worlds' leading manufacturers of quality fire detectors and alarms for commercial and industrial applications. Hochiki's wide range consists of Sensors, Bases, Audio & Visual, Modules, Manual Call Point and Beam Detection.



VESDA

VESDA by Xtralis very early warning aspirating smoke detection solutions with continuous air sampling provide the earliest possible warning of an impending fire hazard. VESDA aspirating smoke detectors buy the critical time needed to investigate an alarm and initiate an appropriate response to prevent injury, property damage or business disruption.

CONVENTIONAL 2-WIRE & 4-WIRE

ANALOGUE ADDRESSABLE

WIRELESS



Page 63
C-Tec Economy Panel



Page 66
Scimitar & Apollo
Series 65



Page 68-69
Alarm Sense 2-Wire
Conventional



Page 72-74
FW1001, FW9003 &
FW9004 Analogue
Addressable



Page 78-79
Ziton Addressable
Panels & Detectors



Page 82-83
Hochiki Addressable
Panels & Devices



Page 86
C-Tec ZFP
Addressable Panels



Page 88-89
Zerio Plus Wire Free
System



Page 92
Rapidfire Wire Free
System



Page 96-97
Automatic Opening
Vent System



Page 102
Yuasa Batteries



Pages 64-65
Conventional VADS
CTEC ACTIV Detectors



Pages 67
GST Panels and
Conventional
Detectors



Page 70-71
Sabre 2-Wire
Conventional



Pages 75-77
Apollo XP95,
Discovery & VADS



Pages 80-81
Apollo Soteria
Addressable
Detectors



Pages 84-85
Nittan Addressable
Panels & Devices



Pages 87
Beam Detectors



Pages 90-91
Apollo Xpander Wire
Free System



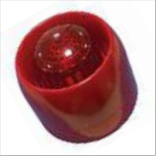
Pages 93-95
Vesda Aspirating
System



Pages 95-101
Fire System
Accessories



Pages 103-107
Fire Extinguishers,
Test Equipment &
Protective Cages



C-TEC Economy Fire Panels

PRODUCT OVERVIEW

Introducing a new range of Economy panels from C-TEC!

The new-look super-enhanced CFP Economy conventional fire panel offers an array of user and installer-friendly features at a very competitive price.

Supplied in an attractive flush or surface mountable plastic enclosure, 2, 4 and 8 zone versions are available, each featuring four conventional sounder circuits, class change and alert inputs and combined keypad/keyswitch entry.

Comprehensive test and fault finding facilities are also provided.

PRODUCT FEATURES

- Intuitive user-friendly interface with colour-coded buttons and combined keypad/keyswitch entry to access level 2
- Third-party certified to EN54-2/4 by the LPCB
- 2, 4 or 8 zone circuits (dependent on model purchased)
- Four conventional sounder circuits
- Integral 1.5A EN54-4/A2 compliant switch mode PSU
- Two open-collector outputs (Remote and Reset)
- 'Class change' and alert inputs
- Installer-friendly design accommodates easy first fix and straightforward maintenance
- Attractive flush or surface mountable plastic lid and enclosure - no bezel required
- Low quiescent current
- Multiple indicators
- End of line units included (one per zone)
- Requires 2 x B/12V/3.2AH/SLA batteries

BEAM DEVICES

C-TEC's Economy panels are also compatible with Conventional Beam and Self adjusting beam devices see **page 87**

SOUNDERS & VISUAL INDICATORS

See **Pages 64 and 66**

PANELS

F/CHSC/2/E	£115.00	CFP Economy 2 zone panel, keypad/keyswitch entry, does not extend (requires 2 x B/12V/3.2AH/SLA battery)
F/CHSC/4/E	£130.00	CFP Economy 4 zone panel, keypad/keyswitch entry, does not extend (requires 2 x B/12V/3.2AH/SLA battery)
F/CHSC/8/E	£180.00	CFP Economy 8 zone panel, keypad/keyswitch entry, does not extend (requires 2 x B/12V/3.2AH/SLA battery)

BATTERIES

B/12V/3.2AH/SLA	£21.00	12 Volt 3.2Ah sealed lead acid battery (1 block)
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Please note batteries are not included: 2, 4 & 8 Zone panels require 2x B/12V/3.2AH/SLA - listed below

SPECIFICATION

Construction	Polycarbonate enclosure
Enclosure Finish	RAL7035 Textured
Panel Dimensions	380mm (W) x 235mm(H) x 96mm(D) 2, 4 & 8 panels have the same measurements
Weight	1.75 Kg (without batteries)

COMPATIBLE DEVICES

DETECTORS

Apollo protocol Series 65 - see **page 66**.
You can also use GST devices - see **page 67**.
C-Tec Activ Detectors - see **page 65**

CALL POINTS

Apollo protocol Series 65 - see **page 66**.
You can also use GST devices - see **page 67**.

ASPIRATING EQUIPMENT

Use in conjunction with Vesda Aspirating equipment on **pages 93 - 95** to protect small businesses of less than 250m² and 500m²



NEW

Conventional Visual Alarm Device (VADs)

PRODUCT OVERVIEW

A European standard has been published to assess the performance of Visual Alarm Devices (VADs), which were often referred to as 'beacons' or 'sounder beacons'.
The assist hearing impaired people or staff working in noisy environments to recognise when a fire alarm has been activated. EN54-23:2010 has been introduced to standardise the requirements, and performance of VADs to ensure that adequate light intensity is achieved where required.

- There are 3 categories of VADs
- C - Ceiling Mounted: When mounted on a ceiling a level of 0.4 lux is archived over a known area
 - W - Wall Mounted: When mounted on a wall a level of 0.4 lux is archived over a known area
 - O - Open Category: Manufacturers specify the area coverage of the VAD.

Ceiling Mounted



F/VAD/C/1



F/VAD/WB/C/2



F/VAD/C/3



F/VAD/WB/C/4

PRODUCT CODE	PRICE	DESCRIPTION
F/VAD/C/1	£46.65	Ceiling Mounted Visual alarm device White body Red flash. Shallow base. 25mA in alarm 7m @3m mounting height
F/VAD/WB/C/2	£58.75	Ceiling Mounted Visual alarm device White body Red flash with 98dB sounder deep base. 40mA in alarm 7m coverage @3m mounting height
F/VAD/C/3	£46.65	Ceiling Mounted Visual alarm device Red body Red flash. Shallow base. 25mA in alarm 7m coverage @3m mounting height
F/VAD/WB/C/4	£58.75	Ceiling Mounted Visual alarm device Red body Red flash with 98dB sounder. Deep base 40mA in alarm 7m coverage @3m mounting height

Wall Mounted



F/VAD/W/1



F/VAD/WB/W/2



F/VAD/W/3



F/VAD/WB/W/4

PRODUCT CODE	PRICE	DESCRIPTION
F/VAD/W/1	£46.65	Wall Mounted Visual alarm device White body Red flash. Shallow base 25mA in alarm 7m coverage @3m mounting height
F/VAD/WB/W/2	£58.75	Wall Mounted Visual alarm device White body Red flash with 98dB sounder deep base. 40mA in alarm 7m coverage @3m mounting height
F/VAD/W/3	£46.65	Wall Mounted Visual alarm device Red body Red flash. Shallowe base 25mA in alarm 7m coverage @3m mounting height
F/VAD/WB/W/4	£58.75	Wall Mounted Visual alarm device Red body Red flash with 98dB sounder Deep base 40mA in alarm 7m coverage @3m mounting height

NEW

C-Tec Activ Fire Detectors

✓ EN54 Third Party Approved

PRODUCT OVERVIEW

A new range of UK-manufactured cnventional fire detectors brought to you by C-Tec, one of the UK's largest independent manufacturers of quality life safety electronic equipment.

PRODUCT FEATURES

- Third-party certified to the relevant parts of EN54-5 & 7
- Optical, fixed heat, rate-of-rise and multi-sensor variants
- 6-33V operating voltage - suitable for use with virtually all known conventional fire panels and many 12V security systems
- Two 8mm x 2mm ultra bright red LED indicating strips offer unrivalled visibility when illuminated
- Drift compensation functionality on Optical and Multi-sensor variants ensures detector sensitivity is automatically calibrated to suit prevailing conditions and increased contamination levels
- Integrated detector/base locking mechanism and ID tag included with all bases



F/C4416- ActiV Optical Smoke Detector to EN54-7



F/C4403A2- ActiV Class A2 Standard (60°C) Standard Fixed Temp Heat Detector to EN54-5



F/C4414- ActiV Multi-Sensor Fire Detector to EN54-5 & 7



F/C4408D- ActiV Diode Base

PRODUCT CODE	PRICE	DESCRIPTION
F/C4403A1R	£18.90	ActiV Class A1R Rate-of-Rise Heat Detector to EN54-5
F/C4403A2	£18.90	ActiV Class A2 Standard (60°C) Standard Fixed Temp Heat Detector to EN54-5
F/C4403B	£18.90	ActiV Class B High (75°C) Fixed Temp Heat Detector to EN54-5
F/C4416	£21.50	ActiV Optical Smoke Detector to EN54-7
F/C4414	£28.30	ActiV Multi-Sensor Fire Detector to EN54-5 & 7
F/C4408D	£3.76	ActiV Diode Base
F/C4408	£3.20	ActiV Non-Diode Base
F/4408R	£15.00	ActiV Relay Base

Scimitar

✓ EN54 Third Party Approved

PRODUCT FEATURES

- LPCB certified to the latest versions of EN54 Parts 2 and 4
- Intuitive user-friendly interface with colour coded buttons and combined keypad / keyswitch entry to access level 2
- 2, 4 or 8 zone circuits (dependent on model purchased)
- Four conventional sounder circuits
- Integral 1.5A EN54-4/A2 compliant switch mode PSU
- Two on-board relays (Fire and Fault)
- Two open-collector outputs (Remote and Reset)
- 'Class change' and alert inputs
- Installer-friendly design accommodates easy first fix and straightforward maintenance
- Attractive flush or surface mountable plastic lid and enclosure - no bezel required
- Low 25mA quiescent current
- Multiple indicators
- End of line units included (one per zone)
- Ancillary system expansion connections provided for up to eight two-wire repeaters (one F/CHSC/RDC network driver card required per system).

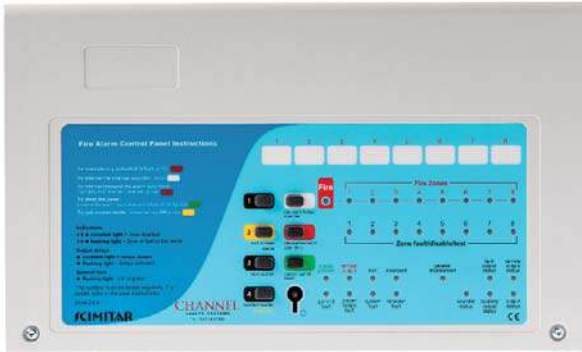
COMPATIBLE DEVICES

DETECTORS

Apollo protocol - Series 65 are listed below. You can also use GST devices - see **page 67** and C-Tec Activ- see **page 65**

SOUNDERS & VISUAL INDICATORS

All compatible sounders and visual indicators are listed below.



Please note batteries are not included, all panels require 2 x B/12V/3.2AH/SLA to operate, listed below

SPECIFICATION

Construction	Plastic lid and base
Enclosure Finish	RAL7035
IP Rating	IP30
Panel Dimensions	380mm (W) x 235mm(H) x 96mm(D) 2, 4 & 8 panels have the same measurements
Weight	1.75 Kg (without batteries)

CALL POINTS

The most common call points are listed below - please see **page 100** for break glass cover units.



PANELS	PRICE	DESCRIPTION
F/CHSC/2	£162.75	Scimitar 2-zone panel requires 2 x B/12V/3.2AH/SLA battery
F/CHSC/4	£213.50	Scimitar 4-zone panel requires 2 x B/12V/3.2AH/SLA battery
F/CHSC/8	£299.00	Scimitar 8-zone panel requires 2 x B/12V/3.2AH/SLA battery
REPEATER PANEL		
F/CHSC/R	£256.25	Scimitar 8-zone repeater panel
F/CHSC/RDC	£88.00	Repeater driver card
REMOTE INDICATOR		
F/CHRI/60	£9.25	Remote indicator
BATTERIES		
B/12V/3.2AH/SLA	£21.00	12 Volt 3.2Ah sealed lead acid battery (1 block)
APOLLO SERIES 65 DETECTORS		
F/CHSM/P	£27.75	(55000-317) Optical smoke detector + base
F/CHSM/A	£27.75	(55000-217) Ionisation smoke detector + base
F/CHHF/A	£24.00	(55000-122) Fixed temp (57°C) H D + base. Individually boxed and labelled
F/CHHF/A/HT	£24.00	(55000-137) High temp (90°C) H D + base attached + logo
F/CHHR/A	£24.00	(55000-127) Rate of rise heat detector + base
SOUNDERS & VISUAL INDICATORS		
F/CHWB/BN/RD/DB	£53.25	LED sounder beacon with deep base
F/CHBN/RD/DB	£31.00	24V Red LED beacon - deep base
F/CHBL/6/2	£22.00	17-27V 6" Red fire bell
F/CHWB/R	£22.50	High output electronic sounder - white with shallow base
F/CHWB/RD/DB	£21.50	Electronic warbler/siren red - deep base
F/CHWB/D	£23.50	Squashni alarm warbler - white
CALL POINTS		
F/CHBG/S/3	£11.50	Break glass - surface
F/CHBG/S/3/PLATE	£3.25	Flushing bezel
F/CHBG/WP/1	£94.75	Waterproof break glass

GST

✓ EN54 Third Party Approved

PRODUCT FEATURES

- 2 to 16 zones can be detected, compatible with conventional detectors. Each of the 16 detection zones can be individually configured as maximum 15 conventional detectors. The total number of detectors in a zone shall not exceed 32.
- 4 sounder outputs, 1 alarm output and 1 fault output
- Test and disable functions
- Day/night mode settable
- Programmable on manual call point connection, sound modes, sounder delay modes and output delay modes
- Able to report short circuit and open circuit of detection zones, sounder outputs and alarm output
- Three access levels settable via a key switch and an internal switch
- Reserved repeater panel interface for fire alarm indication of multiple zones
- Providing external ports includes RESET, SILENCE, EVAC and forced Night Mode

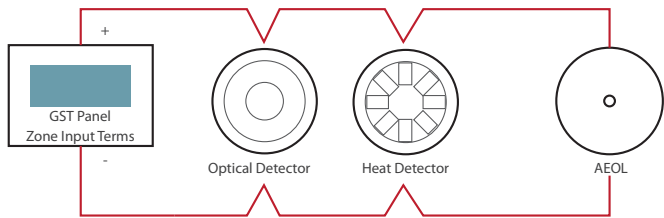


Please note batteries are not included, all panels require 2 x B/12V/2.3AH/SLA to operate, listed below

SPECIFICATION

Operating Voltage	220V/230VAC+10% -15%
Frequency	50/60Hz
Input Current	0.35 A
Fuse	2A delayed
Battery Type	Sealed lead-acid battery
Maximum Battery Charging Capacity	2 batteries, 7Ah/12V
Panel Dimensions	320mm (W) x 380mm(H) x 95mm(D) 2, 4, 8 & 16 panels have the same measurements

TYPICAL WIRING DIAGRAM



PANELS

F/CH/GST102A	£167.50	GST 2 zone control panel requires 2 x B/12V/2.3AH/SLA battery
F/CH/GST104A	£204.50	GST 4 zone control panel requires 2 x B/12V/2.3AH/SLA battery
F/CH/GST108A	£269.75	GST 8 zone control panel requires 2 x B/12V/2.3AH/SLA battery
F/CH/GST116A	£372.00	GST 16 zone control panel requires 2 x B/12V/2.3AH/SLA battery

RELAY BOARDS

F/CH/GST/RB102A	£30.00	Relay board for GST102A, for zonal fault and fire alarm signal output
F/CH/GST/RB104A	£46.75	Relay board for GST104A, for zonal fault and fire alarm signal output
F/CH/GST/RB108A	£83.75	Relay board for GST108A, for zonal fault and fire alarm signal output
F/CH/GST/RB116A	£186.00	Relay board for GST116A, for zonal fault and fire alarm signal output

BATTERIES

B/12V/2.3AH/SLA	£20.00	12 Volt 2.3Ah sealed lead acid battery (1 block)
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DETECTORS

F/CH/GST/C-9102	£13.25	Optical detector complete with remote indicator output without base
F/CH/GST/C-9103	£12.25	Fixed & rate of rise heat detector complete with remote indicator output without base

VISUAL INDICATOR

F/CH/GST/C-9314P	£5.75	Passive remote indicator
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END OF LINE UNIT

F/CH/GST/P-9907	£9.75	Active EOL unit for C series devices
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BASES

F/CH/GST/DB-01D	£2.75	Innovation standard detector base complete with diode for innovation detector using DP-9907 AEOL
F/CH/GST/DZ-03D	£2.50	Detector base complete with diode when using P-9907 AEOL

REFLECTIVE BEAM DETECTOR

F/CH/GST/I-9105R	£98.75	Reflective beam detector c/w 4 reflectors, 8-100 m, 24v DC
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AlarmSense- 2 Wire

✓ EN54 Third Party Approved

RANGE OVERVIEW

- A powerful C-TEC manufactured, LPCB approved EN54 compliant 2-wire fire alarm panel
- Designed to work with Apollo's AlarmSense range of detectors, call points, sounders and beacons.
- Available with 2, 4 and 8 AlarmSense zone circuits
- Installer-friendly design accommodates easy first fix and straightforward maintenance
- Attractive flush or surface mountable plastic lid and enclosure
- Auxiliary remote, fire, fault and reset outputs
- 'Class change' and alert inputs
- Four conventional sounder circuits (for use with non-AlarmSense sounders)
- Low quiescent current - for extended standby times with small batteries
- Intuitive user-friendly interface
- Multiple indicators provide a comprehensive overview of system status
- System expansion connections for up to eight two-wire repeater panels and a range of Relay Output Cards
- Wide range of engineering functions including zone test, coincidence, zone delay and non-latching zones
- Two on-board relays (Fire and Fault)
- Two open-collector outputs (Remote and Reset)



Please note batteries are not included:
All panels require 2 x B/12V/3.2AH/SLA - listed below

SPECIFICATION	
Construction	Polycarbonate enclosure
Enclosure Finish	RAL7035
Panel Dimensions	380mm (W) x 235mm(H) x 96mm(D) 2, 4 & 8 panels have the same measurements
Weight	1.75 Kg (without batteries)

PANELS		
F/CHAS/2	£213.50	AlarmSense 2-zone fire panel requires 2x B/12V/3.2AH/SLA batteries
F/CHAS/4	£290.50	AlarmSense 4-zone fire panel requires 2x B/12V/3.2AH/SLA batteries
F/CHAS/8	£411.00	AlarmSense 8-zone fire panel requires 2x B/3.2AH/SLA batteries
REPEATER PANEL		
F/CHSC/R	£256.25	AlarmSense 8-zone repeater panel
F/CHSC/RDC	£88.00	Repeater driver card
S/E20/A	£62.25	Relay card for use with AlarmSense (fitted in panel)
BATTERIES		
B/12V/3.2AH/SLA	£21.00	12 Volt 3.2Ah sealed lead acid battery (1 block)
REMOTE INDICATOR		
F/CHRI/AS	£21.95	AlarmSense remote indicator (detector base only NOT sounder base)
CALL POINTS		
F/CHBG/S/AS/1	£26.75	AlarmSense surface break glass
APOLLO DETECTORS		
F/CHHF/A/AS	£22.00	AlarmSense fixed high temperature heat detector complete with base type CS 90°
F/CHSM/P/AS	£32.25	(55000-396) AlarmSense optical detector complete with base
F/CHHR/A/AS	£24.00	(55000-188) AlarmSense 55° rate of rise heat detector complete with base
APOLLO COMBINATION DETECTORS, SOUNDERS & BEACONS		
F/CHHF/HT/AS/WB	£39.50	(55000-197) AlarmSense high temp heat detector and sounder base type CS
F/CHHR/AS/WB	£43.50	(55000-196) AlarmSense heat detector with sounder base A1R type
F/CHHR/AS/WB/BN	£60.25	(55000-198) AlarmSense heat detector with sounder base and beacon A1R type
F/CHSM/P/AS/WB	£48.75	(55000-392) AlarmSense optical detector complete sounder base
F/CHSM/P/AS/WB/BN	£62.00	(55000-394) AlarmSense optical smoke combination
APOLLO SOUNDERS & VISUAL INDICATORS		
F/CHWB/D/AS	£32.25	(45681-510) AlarmSense base sounder
F/CHWB/D/BN/AS	£49.75	(45681-509) AlarmSense base mounted electronic sounder/beacon
F/CHWB/BN/RD/AS	£67.50	(55000-017) AlarmSense open-area red sounder beacon
F/CHWB/RD/AS	£57.00	(55000-018) AlarmSense open area red sounder
APOLLO OTHER ACCESSORIES		
F/CHRM/AS	£56.75	(55000-835) AlarmSense relay module
F/CHWB/AS/CAP/RD	£4.25	(45681-295) Red locking cap for AlarmSense base
F/CHWB/AS/CAP/WH	£4.25	(45681-294) White locking cap for AlarmSense base

AlarmSense- 2 Wire- Compatible Devices

RANGE OVERVIEW

Two-wire AlarmSense has been developed to make the design and installation of a fire detection and alarm system easier and more economic for small to medium sized buildings. The range also allows an existing system to be extended or modified if necessary, this flexibility makes AlarmSense an excellent choice for use in Houses of Multiple Occupation (HMO's).

Most conventional fire systems are designed to work with two pairs of wires per zone: one pair for detection devices such as smoke detectors, heat detectors and manual call points; the other for alarm devices such as bells, sounders or strobes. By using different voltage bands for quiescent and alarm states, AlarmSense components can be connected to the same pair of supply wires.

When powered and controlled by the AlarmSense two-wire fire panel, this reliable technology takes all the complexity out of fire alarm system design, leading to quicker, less expensive and more flexible installations. Research shows an AlarmSense two-wire systems can achieve up to 40% reduction of labour over a standard four wire conventional system.



Apollo products are certified in a global arena to meet the most exacting standards set by both our customers and the dynamic and challenging environments in which they are designed to operate.

Apollo holds in excess of 2500 product approvals worldwide. Their products are stringently tested to international land and marine based standards. The company is quality certified by LPCB to ISO9001:2008 and ISO14001:2004 for their Environment Management System.

AlarmSense detectors are Apollo protocol and only devices listed on the left hand page should be used with AlarmSense panels.

DETECTORS

COMBINED DETECTORS



F/CHSM/P/AS
Optical smoke detector



F/CHHF/A/HT/AS
Heat detector



F/CHHF/HT/AS/WB
Combined Heat detector



F/CHSM/P/AS/WB
Optical smoke detector

SOUNDERS & VISUAL INDICATORS

CALL POINTS



F/CHWB/D/AS &
F/CHWB/AS/CAP/WH
Base sounder with
white locking cap



F/CHWB/BN/RD/AS
Red sounder visual
indicator



F/CHWB/RD/AS
Red
sounder



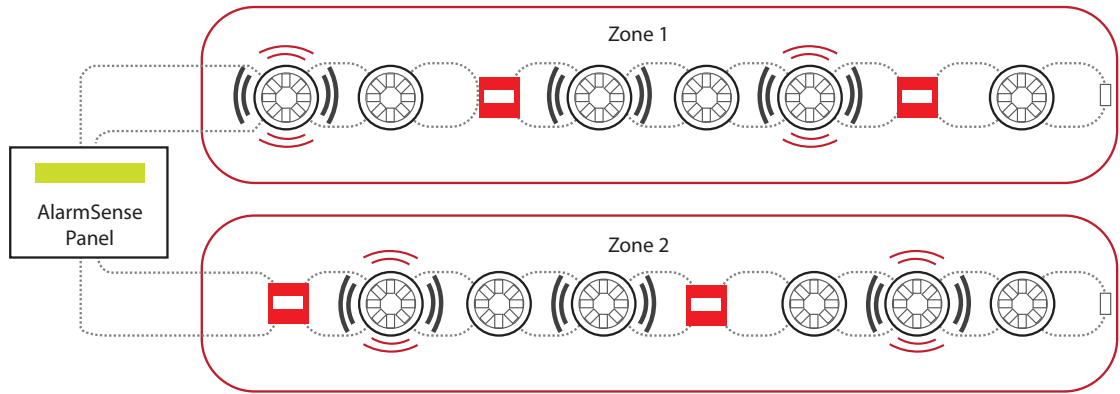
F/CHBG/S/AS
Surface mounted
break glass

Only AlarmSense sounders and visual indicators should be used with AlarmSense panels.

For Callpoint and Break Glass Cover options see **page 100**

Batteries may vary due to stand-by times and number of devices on your system. If in doubt please contact our technical team on 0845 884 7000 or email technical@channelsafety.co.uk

TYPICAL SYSTEM ARCHITECTURE - ALARMSENSE



- Detector
- Detector with Sounder Base
- Detector with Sounder Beacon Base
- Manual Call Point Base
- End of line Device

Please note:

Do not use Series 65 detectors on AlarmSense Systems, they could cause severe system malfunction

Sabre Pro- 2 Wire

✓ EN54 Third Party Approved

PRODUCT FEATURES

- Complies to BS5839 and EN54 part 4
- 32 devices per zone
- Output module available for plant shutdown or door release
- **Panels are supplied without battery - options are listed**
- 4 line x 20 character LCD display
- Ability to differentiate between callpoint or detector alarms
- Checkpoint alarm verification procedure
- Highlighted selection menu
- Event log storing up to 500 events
- 3 enhanced test modes
- Allows detectors & sounders to be installed on the same pair of wires
- Built-in EOL capability in all devices
- Use of Multipoint detector offers 7 modes of detection
- No extra devices needed for audible warning
- Self-calibrates every 6 hours
- Continuously monitors for dust contamination



Please note batteries are not included, all panels require 2x B/12V/3.2AH/SLA to operate, listed below

SPECIFICATIONS

Construction	5VB rated ABS
Battery Charger	170 mA current limiter
Battery (reverse polarity)	3.2AH F 20mm (in line with battery leads) Glass
Panel Dimensions	Fascia 331mm2 - Back box 305mm - Depth 99mm
Weight (excluding batteries)	2 Zone - 2.25 Kg 4 Zone - 2.28 Kg 8 Zone - 2.36 Kg

KITS

F/CHSA/2/PRO/KIT	£597.75	Sabre Pro 2 zone fire alarm kit c/w 2 call points, 6 optical smoke/heat sounders & 1 head removal tool
F/CHSA/4/PRO/KIT	£662.00	Sabre Pro 4 zone fire alarm kit c/w 2 call points, 6 optical smoke/heat sounders & 1 head removal tool
F/CHSA/8/PRO/KIT	£786.75	Sabre Pro 8 zone fire alarm kit c/w 2 call points, 6 optical smoke/heat sounders & 1 head removal tool

PANELS

F/CHSA/2/PRO	£273.25	Sabre Pro 2 zone dual wire fire alarm panel (requires 2 x B/12V/3.2AH/SLA batteries)
F/CHSA/4/PRO	£339.50	Sabre Pro 4 zone dual wire fire alarm panel (requires 2 x B/12V/3.2AH/SLA batteries)
F/CHSA/8/PRO	£469.00	Sabre Pro 8 zone dual wire fire alarm panel (requires 2 x B/12V/3.2AH/SLA batteries)
F/CHSA/PRO/R	£265.00	Sabre Pro repeater panel for 4 and 8 Zone Panels Only

REMOTE INDICATOR

F/CHRI/60	£9.25	Remote indicator
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BATTERIES

B/12V/3.2AH/SLA	£21.00	12 Volt 3.2Ah sealed lead acid battery (1 block)
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DETECTORS

F/CHBN/SU/SA	£43.75	Sabre sounder/strobe wired on zone
F/CHSU/I/SA	£42.75	Sabre industrial horn sounder 90dBA IP55
F/CHSA/SH/PRO	£43.00	Sabre combined optical smoke/heat detector
F/CHSA/SHS/PRO	£50.00	Sabre combined optical smoke/heat detector and sounder
F/CHSA/SHSB/PRO	£79.75	Sabre combined optical smoke/heat detector and sounder/beacon

SOUNDERS & VISUAL INDICATORS

F/CHSU/SA	£30.75	Sabre red electronic sounder unit
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CALL POINTS

F/CHBG/S/SA	£24.50	Sabre series break glass call point
F/CHBG/S/SA/WP	£57.00	Sabre series IP65 break glass call point

INPUT / OUTPUT MODULES

F/CHSW1/SA	£95.75	Sabre Input / Output module
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OTHER ACCESSORIES

F/CHHRT/SA/PRO	£19.25	Sabre head removal tool
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Sabre Pro- 2 Wire - Compatible Devices

DETECTORS



F/CHSA/SH/PRO, F/CHSA/SHS/PRO & F/CHSA/SHSB/PRO

COMBINED DETECTORS / SOUNDERS & SOUNDERS & VISUAL INDICATORS



F/CHBN/SU/SA Sounder / Strobe wired on zone



F/CHSU/I/SA Industrial Horn Sounder

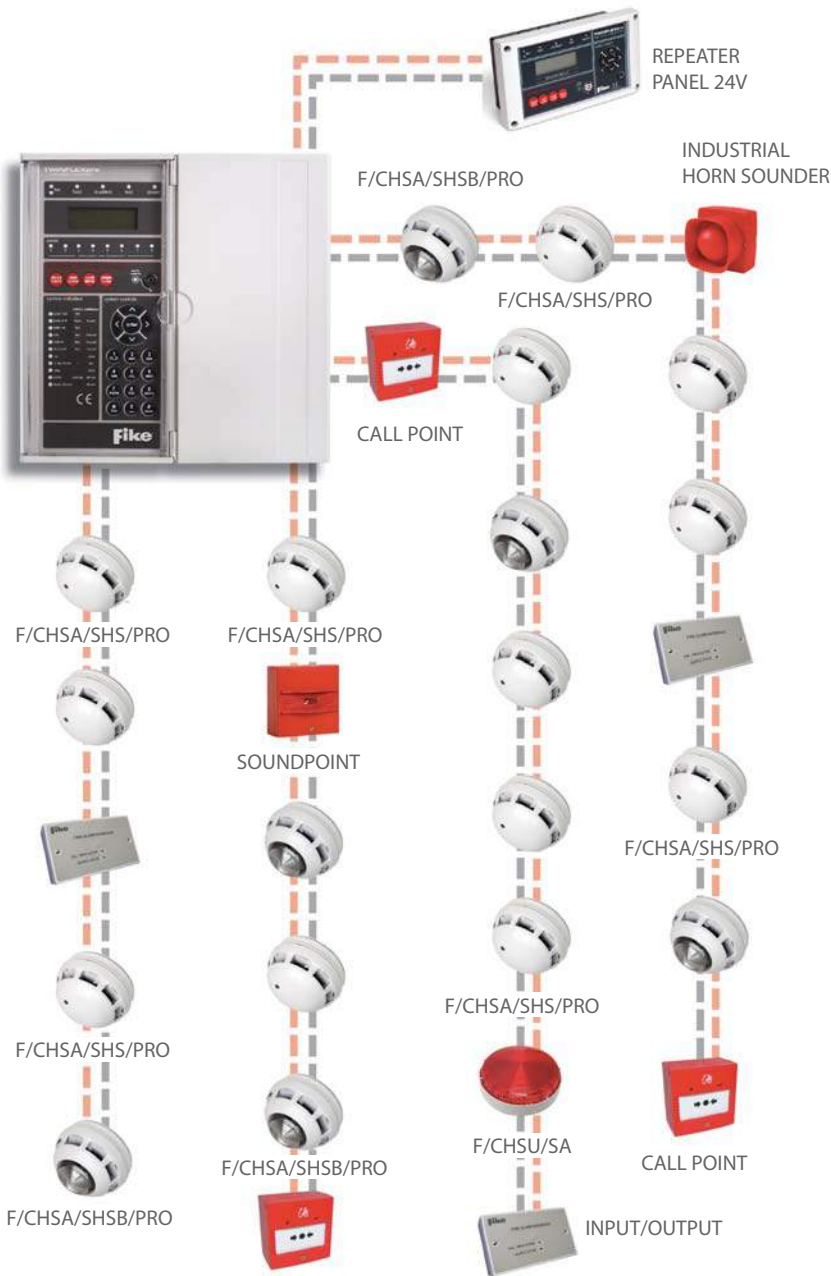


F/CHSU/SA Electronic Sounder



F/CHBG/S/SA Break Glass Call Point

Please Note: Only Sabre Pro detectors, combination detectors/sounders, call points and sounders & visual indicator devices should be used with Sabre Pro panels.



TYPICAL SYSTEM ARCHITECTURE
2 Wire, 4/8 Zone Detection System

Diagram shows a typical installation of a 2 wire, 4/8 zone detection system.

Each Fire Detection System is bespoke to each premises' - Channel Safety Systems can offer complete system designs, based on contract awarded.

Please contact our Technical department for further information on **0845 884 7000** or email technical@channelsafety.co.uk



CUT FALSE ALARM COSTS
Sabre Pro - Special Features

Drift-compensation reduces false alarms, but this feature is not normally found in conventional or two wire systems.

The Sabre detector not only has this feature as standard, but when it reaches its upper limit there is a warning on the panel and at the detector.

The Sabre Pro system also has an in built pre alarm facility that can be programmed through the control panel. This "Alarm Confirmation" feature can significantly reduce the effect of nuisance alarms.

Did you Know...?

- The number of false alarms fell by 3% to 293,100 in 2013-14 from 301,400 in 2012-13
- In 2013-14 there were 322 fire-related deaths in Great Britain, 20 fewer than in 2012-13. This is the lowest recorded in the last fifty years.

Source: Fire Statistics GB 2013-14

Firewatch Panels - FW1001

✓ EN54 Third Party Approved

PRODUCT FEATURES

- Compatible with Apollo's XP95/Discovery and Hochiki's ESP protocols
- The ability to interconnect up to eight Firewatch main panels (any variant) onto a two wire RS485 network. Alternatively, up to eight Firewatch repeaters can be connected to a non-networked Firewatch main panel
- Combined keypad/keyswitch entry to access levels 2 & 3
- Two independently programmable conventional sounder circuits
- Two programmable inputs
- A fault output relay and three programmable relay outputs with voltage free changeover contacts
- Three zone dependency functions (A, B & C to EN54-2 clause 7.12)
- A day/night (building occupied/unoccupied) function
- An investigation delay period function
- A phased evacuation and delays to outputs facility to EN54-2
- An alarm counter that records the number of times the panel has been in an alarm state to EN54-2
- Powerful short circuit protected loop drivers, capable of supporting up to 40 loop powered 10mA sounders per loop
- An integral EN54-4/A2 switch mode PSU rated @ 185-260V a.c
- 50-60Hz (1.4A on a 16 zone panel, 3A on a 32 zone panel)
- Earth fault monitoring
- An easy to read, 80 character back-lit display
- 40 characters of custom text per device
- 999 event monitoring
- Comprehensive test facilities to EN54-2 and a wide range of functions including auto-learn loops, monitor a point, test outputs, one man walk test and loop continuity test
- An intuitive Windows based upload-download PC program that allows the system to be programmed quickly and easily



Batteries are not included: 16 Zone panels require 2x B/12V/2.8AH/SLA to operate, 32 Zone panels require 2x B/12V/7AH/SLA to operate

SPECIFICATIONS

Internal Power Supply	27V DC Nominal
Earth Fault Monitoring	Yes (any conductor)
Max. No. of Addressable devices per loop	126
Max. No. of Loop powered sounders per loop @ 10mA	40
Weight (excluding batteries)	Single loop 16 zone 1.8Kg Two loop 32 zone panel - 4.5Kg

PRODUCT CODE	PRICE	DESCRIPTION
FW1001 PANELS		
F/FW1001/1/16	£510.00	Networkable single loop 16 zone panel (requires 2 x B/12V/2.8AH/SLA batteries)
F/FW1001/2/32	£888.50	Networkable two loop 32 zone panel (requires 2 x B/12V/7AH/SLA batteries)
F/FW1001/R/16	£519.75	Networkable repeater panel – 16 zones (requires 2 x B/12V/2.8AH/SLA batteries)
F/FW1001/R/32	£500.00	Networkable repeater panel – 32 zones (2 x B/12V/2.8AH/SLA batteries)
F/FW1001/NCC/32	£134.25	Network communications card for 32 zone
PANEL BATTERIES		
B/12V/2.8AH/SLA	£14.50	12 Volt 2.8Ah sealed lead acid battery (1 block)
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)
HUSH BUTTONS		
F/FW1001/HB	£115.00	BS5839-6 Hush button, Apollo XP95 / Discovery
F/FW1001/HB/SS	£211.75	BS5839-6 Stainless steel hush button, Apollo XP95 / Discovery
F/FW1001/HB/HOC	£90.50	BS5839-6 Hush button, Hochiki ESP
F/FW1001/HB/HOC/SS	£211.25	BS5839-6 Stainless steel hush button, Hochiki ESP

Which Protocol?

- Firewatch FW1001 Panels are compatible with Apollo XP95/Discovery and Hochiki/ESP devices - please see **pages 75,82 & 83** (Hochiki panel needs to be ordered if using Hochiki devices)

Please note:

- Batteries are not included
- Please state when ordering whether you require Apollo or Hochiki protocol
- Batteries may vary due to stand-by times and number of devices on your system. If in doubt please contact our technical team on 0845 884 7000 or email technical@channelsafety.co.uk

Firewatch Panels - FW9003

✓ EN54 Third Party Approved

PRODUCT OVERVIEW

The Firewatch 9003 range of analogue addressable fire alarm control panels have been designed and constructed around proven and reliable microprocessor technology. This simple approach has produced a modular, scalable fire alarm platform suitable for protecting all types of premises.

PRODUCT FEATURES

- Compatible protocols: Apollo XP95/Discovery, Hochiki's ESP & Nittan
- Simple, robust design to EN54 Parts 2 & 4
- 4x40 – Character LCD alphanumeric display with back-light
- Up to 200 zone LEDs
- Up to 10 individual level 2 user access codes
- Optional lockable glass door – provides added security / protection
- Provide up to 72hr stand-by (subject to verification)
- Walk test facility
- Event logic – facilitates complex cross-panel programming
- Auto-learn facility allows rapid and accurate commissioning of devices
- Windows™ configuration tool allows off -site programming
- Facility to print history and event logs
- Shared Zone System - Each networked control panel shares information
- Report & Control System - For multiple building sites where information is presented at the local and master panels only
- A compliant fault tolerant network can be created using the additional, optional Hi-485 network card
- 99 panel network allows systems in excess of 60,000 devices to be managed



Batteries are not included: 1 & 2 loop panels require 2 x B/12V/7AH/SLA to operate, 5 loop panels require 2 x B/12V/12AH/SLA to operate

SPECIFICATIONS

IP Rating	IP30
Panel Dimensions (5SE)	Height 500mm, Width 500mm, Depth 195mm
Panel Dimensions (1/2SE)	Height 400mm, Width 400mm, Depth 135mm
Weight (excluding batteries)	1 and 2 loop panels = 10kg 5 loop panels = 20kg

FW9003 PANELS		
F/FW9003/1SE	£1,287.00	1 loop fire panel less loop cards (requires 2 x B/12V/7AH/SLA batteries)
F/FW9003/2SE	£1,605.00	2 loop fire panel less loop cards (requires 2 x B/12V/7AH/SLA batteries)
F/FW9003/5SE	£2,820.25	5 loop fire panel less loop cards 20 zones – expandable up to 80 (requires 2 x B/12V/12AH/SLA batteries)
F/LC9003	£222.00	Apollo Loop card for use with FW9003/5SE and 2SE panel
F/LC9003/HOC	£222.00	Hochiki Loop Card
F/FW9000/RC	£1,067.75	Repeater panel – with controls
PANEL BATTERIES		
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)
B/12V/12AH/SLA	£42.00	12 Volt 12Ah sealed lead acid battery (1 block)

Which Protocol?

- Firewatch FW9003 Panels are compatible with Apollo XP95, Discovery, Hochiki & Nittan devices - please see **pages 75 through to 85**. Please ensure you have the ordered the correct loop card for your chosen protocol.

Please note:

- Batteries are not included
- Please state when ordering which protocol you require
- Batteries may vary due to stand-by times and number of devices on your system. If in doubt please contact our technical team on 0845 884 7000 or email technical@channelsafety.co.uk

Firewatch Panels - FW9004

✓ EN54 Third Party Approved

PRODUCT FEATURES

- Compatible protocols - Apollo XP95, Discovery, Hochiki ESP
- Protocol selection is software driven internally within the panel so no additional hardware required
- 1,2 and 4 loop panels available
- Networkable up to 16 loops
- Optional 40 or 80 zone alarm LEDs
- Easy 5 key-press set-up / Large blue LCD display
- Supports USB upload/download
- Mobile phone style keypad and navigation keys
- True peer-to-peer network reduces installation costs
- BS5839 part 1 compliant network
- 80 fire zones / 7 day timers / Event logging / On board diagnostics
- Coincidence and verification detection for false alarm management
- Sensitivity adjustment e.g. between day and night
- 2 independent sounder circuits / 500mA Universal Loop Driver
- 2x on board monitored inputs / Plug-in connectors



Batteries are not included: 1 & 2 Loop panels require 2 x B/12V/7AH/SLA to operate, 4 Loop panels require 2 x B/12V/12AH/SLA to operate

SPECIFICATIONS	
IP Rating	IP30 (EN6059)
Panel Dimensions (9004/1)	Height 260mm, Width 390mm, Depth 147mm
Panel Dimensions (9004/2 & 9004/4)	Height 391.5mm, Width 390mm, Depth 147mm
Weight (excluding batteries)	4.5Kg

PRODUCT CODE	PRICE	DESCRIPTION
FW9004 PANELS		
F/FW9004/1	£846.25	1 loop DXc control panel (no zone LEDs) 230V AC, 2 sounder circuits (requires 2 x B/12V/7AH/SLA)
F/FW9004/2	£1,176.00	2 loop DXc control panel (no zone LEDs) 230V AC, 2 sounder circuits (requires 2 x B/12V/7AH/SLA)
F/FW9004/4	£2,460.75	4 Loop DXc control panel (no zone LEDs) 230V AC, 2 sounder circuits (requires 2 x B/12V/12AH/SLA)
F/FW9004/40Z	£101.50	DXc 40 zone LED Card £101.50
F/FW9004/UL/DL	£167.75	DXc USB upload/download lead £167.75
PANEL BATTERIES		
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)
B/12V/12AH/SLA	£42.00	12 Volt 12Ah sealed lead acid battery (1 block)

Which Devices?

- Apollo XP95, Apollo Discovery and Hochiki - please see pages 75,76,71,81,82 & 83

Please note:

- Batteries are not included
- Batteries may vary due to stand-by times and number of devices on your system. If in doubt please contact our technical team on 0845 884 7000 or email technical@channelsafety.co.uk

Apollo XP95 Protocol ✓ EN54 Third Party Approved

PRODUCT OVERVIEW

The XP95 range of analogue addressable fire detectors is advanced in design, improved in performance and has unique features that benefit the installer and the end user.

The detectors have been carefully researched and developed by the Apollo design team and the range has undergone rigorous testing to ensure that it meets not only European and other standards but also the demands of today's high technology environments.

XP95 detectors provide an alarm facility that automatically puts an alarm flag on the data stream and reports its address when the pre-set EN54 thresholds are exceeded.

PRODUCT FEATURES

- Digital Protocol for error-free transmission
- Alarm Flag for fast alarm reporting
- Alarm Address for fast location of alarm
- Automatic addressing with the patented XPERT card
- Electronics-free, easy fit base
- Ease of installation
- Wide range of compatible interface units
- Wide range of compatible panels
- Compatible with Series 90 and Discovery
- Elegant, unobtrusive design
- Wide range of products
- Great flexibility in system design

CALL POINTS



F/CHBG/IS/95/2



F/CHBG/WP/95/1

DETECTORS



Back Row, left to right: F/CHSM/P/95, F/CHHM/95 & F/CHHM/HT/95
Front Row, left to right: F/CHSM/A/95, F/CHSM/M/95 & F/BASE/95

INTERFACES & ISOLATORS



F/CHIO/1/95/240



F/CHIS/95/DB

SOUNDERS & VISUAL INDICATORS



Left to Right: F/CHWB/95/AP, F/CHWB/BN/95/AP, F/CHBN/95 & F/CHBN/95/A

CALL POINTS		
F/CHBG/IS/95/2	£48.75	(55200-908) Analogue addressable break glass – complete with isolator and flexible element
F/CHBG/WP/95/1	£156.75	(58200-950) XP95 weatherproof break glass
XP95 DETECTORS		
F/CHHM/95	£44.50	(55000-400) Temperature monitor less base
F/CHHM/HT/95	£45.50	(55000-401) High temperature H D less base
F/CHSM/A/95	£54.25	(55000-500) Ionisation smoke detector less base
F/CHSM/M/95	£49.75	(55000-885) Multi-sensor detector
F/CHSM/P/95	£44.50	(55000-600) Optical smoke monitor less base
F/BASE/95	£4.00	(45681-210) Mounting base – series XP95
INTERFACES AND ISOLATORS		
F/CHIO/1/95	£88.75	(55000-847) Single channel input/output unit complete with isolator. Contacts rated 30V 1Amp
F/CHIO/1/95/240	£119.50	(55000-875) Single channel input/output unit 230V contacts 1A complete with surface mounting enclosure
F/CHIO/3/95	£169.00	(55000-588) Three channel input/output unit complete with isolator
F/CHIS/95	£28.25	(55000-720) XP95 isolator less base
F/CHIS/95/DB	£20.75	(45681-284) Short circuit isolator with detector base
F/CHSN/95	£100.00	(55000-852) Sounder circuit controller complete with isolator
F/CHSW/95	£93.50	(55000-843) Switch monitor complete with isolator
SOUNDERS AND VISUAL INDICATORS		
F/CHBN/95	£53.75	(55000-877) XP95 loop powered beacon
F/CHBN/95/A	£54.25	(45681-335) Beacon base
F/CHWB/95/AP	£57.00	(55000-001) Open area XP95 sounder red IP65 complete with isolator
F/CHWB/BN/95/A	£64.75	(45681-331) Loop powered base sounder beacon – incorporates detector mounting base
F/CHWB/BN/95/AP	£81.50	(55000-005) Open area XP95 sounder beacon red IP65
F/CHWB/BN/95/IS	£64.75	(45681-330) Loop powered base sounder beacon – complete with loop isolator and detector mounting base
F/CHWB/IS/IN/95A	£40.25	(45681-277) Loop powered intelligent base sounder – incorporates detector mounting base
F/COVER/RD/1	£4.25	(45681-293) Red cover for CHWB/BN/95/A
F/COVER/WH/1	£4.25	(45681-292) White cover for CHWB/BN/95/A

Apollo Discovery ✓ EN54 Third Party Approved

PRODUCT OVERVIEW

Discovery is a range of high specification analogue addressable fire detectors. The Discovery range is designed to meet specifications for detectors incorporated in sophisticated systems, Discovery provides engineers with an additional dimension in fire protection capability.

The Discovery communications protocol is a development of the proven XP95 protocol, making both ranges of detector compatible.

PRODUCT FEATURES

- Rejection of transient signals
- Flashing LED option
- Five response modes for ease of optimisation to changing environments
- Drift compensation to ensure constant sensitivity
- Four bytes of user programmable non-volatile memory
- Alarm flag for fast alarm reporting
- Conventional alarm facility during CIE processor fault
- 360° visibility in alarm
- Compatible with XP95 systems

COMPATIBLE PRODUCTS

Access to the Discovery range of audio visual signalling equipment with advanced features such as choice of volume, tones, including class change.

DRIFT COMPENSATION

All Discovery smoke detectors include compensation for sensor drift caused, for example, by dust in the chamber, and will hold the sensitivity at a constant level even with severe chamber contamination.

SENSITIVITY SELECTION

Each detector in the Discovery range can operate in one of five response modes, which can be selected from the control panel. The response characteristics of the detectors have been carefully set so that the detectors will comply with the requirements of the relevant EN54 in all response modes. Mode selection depends on application - Mode 1 will give a higher sensitivity to fire than in Mode 5.

PRODUCT CODE	PRICE	DESCRIPTION
APOLLO DETECTORS		
F/CHSM/P/DISC	£63.25	(58000-600) Discovery optical detector less base
F/CHHM/DISC	£63.25	(58000-400) Discovery heat monitor less base
F/CHSM/A/DISC	£64.25	(58000-500) Discovery ionisation detector less base
F/CHSM/M/DISC	£75.75	(58000-700) Discovery smoke/heat detector less base
APOLLO SOUNDERS AND VISUAL INDICATORS		
F/CHWB/BN/DISC/A	£79.00	(45681-393) Discovery sounder visual indicator base

CALL POINTS



F/CHBG/IS/DISC
Break Glass complete with isolator



SOUNDERS & VISUAL INDICATORS



Left to right: F/CHWB/BN/DISC/AP/R (Open-Area Sounder Indicator - Red Lens), F/CHWB/BN/DISC/A (Sounder Visual Indicator Base)

DISCOVERY DETECTORS



Left to right: F/CHSM/P/DISC (Optical Detector less Base), F/CHHM/DISC (Heat Monitor less Base), F/CHSM/A/DISC (Ionisation Detector less Base), F/CHSM/M/DISC (Smoke/Heat Detector less Base)

Please note:

- We have portrayed the most commonly used Discovery devices here - yet for further options please contact our sales department on 0845 884 7000 or email sales@channelsafety.co.uk.
- For interface units - XP95 interfaces on the previous page can be used. Contact our technical team at technical@channelsafety.co.uk to check compatibility prior to ordering.

NEW Apollo XP95 Visual Alarm Device (VADs)

PRODUCT OVERVIEW

A European standard has been published to assess the performance of Visual Alarm Devices (VADs), which were often referred to as 'beacons' or 'sounder beacons'.

The assist hearing impaired people or staff working in noisy environments to recognise when a fire alarm has been activated. EN54-23:2010 has been introduced to standardise the requirements, and performance of VADs to ensure that adequate light intensity is achieved where required.

There are 3 categories of VADs

- C - Ceiling Mounted: When mounted on a ceiling a level of 0.4 lux is achieved over a known area
- W - Wall Mounted: When mounted on a wall a level of 0.4 lux is achieved over a known area
- O - Open Category: Manufacturers specify the area coverage of the VAD.



F/55000-742

Ceiling Mounted

PRODUCT CODE	PRICE	DESCRIPTION
F/55000-742	£69.00	Ceiling Mounted 55000-742 XP95/ Discovery Red body White flash. 9.4mA in alarm 8.5m coverage @3m mounting height.
F/55000-745	£69.00	Ceiling Mounted 55000-745 XP95/ Discovery White body White flash. 9.4mA in alarm 8.5m coverage @3m mounting height.
F/55000-740	£69.00	Ceiling Mounted 55000-740 XP95/ Discovery Red body White flash. 26.6mA in alarm 15m coverage @3m mounting height.
F/55000-743	£69.00	Ceiling Mounted 55000-743 XP95/ Discovery Red body White flash. 26.6mA in alarm 15m coverage @3m mounting height.

Wall Mounted



F/55000-744

PRODUCT CODE	PRICE	DESCRIPTION
F/55000-741	£69.00	Wall Mounted 55000-741 XP95/ Discovery Red body White flash. 9.4mA in alarm 7m³ coverage @2.5m mounting height.
F/55000-744	£69.00	Wall Mounted 55000-744 XP95/ Discovery White body Red flash. 9.4mA in alarm 7m³ coverage @2.5m mounting height.

Open Category



F/45681-709

PRODUCT CODE	PRICE	DESCRIPTION
F/45681-709	£74.00	Open Category 45681-709 XP95/ Discovery BASE MOUNTED VAD White flash. 9.4mA in alarm. Approx coverage 3m Dia @ 3m mounting height
F/45681-705	£105.00	Ceiling Mounted 45681-705 XP95/ Discovery BASE MOUNTED SOUNDER/VAD White flash. 14mA in alarm. Approx coverage 3m Dia @ 3m mounting height

PRODUCT OVERVIEW

Ziton is one of the world's leading brands in the manufacturing of fire alarm equipment, and Channel are proud to be specialist distributors of the analogue fire device ranges.

The ZP2 Series life safety control systems are bringing the speed and functionality of high-end intelligent processing to small to mid-sized addressable applications.

PRODUCT FEATURES

- Eight programmable supervised outputs that can be dedicated to sounder control and fire routing
- Intuitive front panel control with centrally-located Jog Dial
- Ethernet port with TCP/IP connectivity for programming and maintenance
- Up to 127 devices may be connected to each ZP address loop.
- EN54 compliant graphical LCD with icons and up to 256 zones
- Up to 40 LED Zone indicators for Fire and Fault with ample text space
- Easy-to-remove panel doors and electronics
- Operating platform certified for life safety system applications
- Full line of addressable and conventional accessories
- History log memory for 9999 events
- Up to 72 hours standby time and 30 minutes alarm
- Comes standard fitted with network board
- Local or global repeater with or without global control functionality
- Auto configuration, setup wizards and default EN54 setup modes
- Jog Dial with 4 soft buttons for simple and intuitive user control
- Aesthetic pleasing design with special paint able synthetic door
- All plug-able connectors
- 3 USB ports with memory stick support and RS232 for printer support
- Email notification for events directly from the panel (4 user accounts)
- Auxiliary 24V DC supply output with reset support
- 3 operator level menu structure (20 user names and passwords)

APPROVALS & COMPLIANCE

- CE / CPD / EN54-2 / EN54-4
- NEN2535 / NBNS21-100 compliant
- BS5839-1 compliant
- VdS and LPCB certified
- WEEE / RoHS compliant

THE PANELS

The fire panels supplied in local language, with user interface, with 1 loop that supports up to 254 devices (127 addresses) in 64 zones, have standard 2 supervised sounder/fire-routing outputs, which can be used as freely programmable outputs as well. In addition 2 conventional relay outputs and 2 supervised outputs, working in pair and dedicated to common fire and fault conditions, as well as 2 user configurable inputs for monitoring and control are available.

OPTIONS

The repeaters use a node on the network, similar like a normal panel with a maximum of 32 nodes / 32 loops network of fire panels, fire panel repeaters (including conventional fire panels and fire panel repeaters up to a maximum of 64 conventional zones).

Last but not least, in case separate zone indications are required, a 20 or 40 zone fire/fault LED indicator board can be mounted in the panel or repeater with ample space for text.



SPECIFICATIONS	
Voltage	230 / 110 VAC (+10% / -15%)
Frequency	50 / 60 Hz (±5%)
Operating Temperature	-5°C to +40 °C
Batteries	Max. 2 x 12V/7.2Ah (use supplied cables)
IP Rating	IP30
Panel Dimensions	Small cabinet - Height 298mm Width 410mm Depth 162mm Large cabinet - Height 550mm Width 449.6mm Depth 171.2mm
Weight	Small cabinet - 5.2 Kg (without batteries) Large cabinet - 7.4 Kg (without batteries)

DETECTORS



F/CH/ZP730-2P
Ziton polar white optical sensor



F/CH/ZP730-2BL
Ziton black optical sensor



F/CH/ZP720-3P
Ziton polar white heat sensor

DETECTORS - INTELLIGENT MULTI-SENSOR



F/CH/ZX832-2B
Ziton black intelligent multi-sensor (optical & heat)



F/CH/ZX832-2P
Ziton polar white intelligent multi-sensor (optical & heat)

SOUNDERS & VISUAL INDICATORS

CALL POINTS



F/CH/ZP755V-P
Ziton white surface mounting visual alarm indicator with clear lens



F/CH/ZP755HAV-2P
Ziton white omnidirectional visual sounder indicator



F/CH/ZP785-3
Ziton red flush mounting analogue call point complete with EN54 marking



F/CH/ZP7-87-3
Ziton red weatherproof surface mounting analogue call point (IP67)

PANELS

F/CH/ZP2-F1-S-99	£908.50	ZP2 1 loop fire panel - small cabinet (no zone LEDs)
F/CH/ZP2-F2-S-99	£1,351.50	ZP2 2 loop fire panel - small cabinet (no zone LEDs)
F/CH/ZP2-F1-99	£1,096.00	ZP2 1 loop fire panel - large cabinet (no zone LEDs)
F/CH/ZP2-F2-99	£1,540.00	ZP2 2 loop fire panel - large cabinet (no zone LEDs)
F/CH/ZP2-ZI-24-S	£105.25	24 zone LEDs - small cabinet only
F/CH/ZP2-ZI-20	£105.25	20 zone LEDs - large cabinet only
F/CH/ZP2-ZI-40	£168.00	40 zone LEDs - large cabinet only

REPEATER PANEL

F/CH/ZP2-FR-S-99	£1,112.50	ZP2 repeater panel - small cabinet (no zone LEDs)
F/CH/ZP2-FR-99	£1,385.50	ZP2 repeater panel - large cabinet (no zone LEDs)

EXPANSION PCB

F/CH/ZP2-LB	£741.75	2 loop expansion PCB (can only be fitted to a 2 zone panel only)
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NETWORK CARD

F/CH/2010-2-NB	£362.75	Network card for ZP2 panel (not required in repeaters)
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DETECTORS

F/CH/ZP730-2P	£46.50	Ziton polar white optical sensor
F/CH/ZP730-2BL	£75.25	Ziton black optical sensor
F/CH/ZP720-3P	£42.00	Ziton polar white heat sensor
F/CH/ZX832-3P	£57.00	Ziton polar white intelligent multi-sensor (optical & heat)
F/CH/ZX832-3B	£103.00	Ziton black intelligent multi-sensor (optical & heat)

BASES

F/CH/ZP7-SB1-BL	£15.25	Ziton black surface base
F/CH/ZP7-SB1-P	£5.00	Ziton polar white surface mounting sensor base
F/CH/ZP7-RB1-P	£15.00	Ziton recessed sensor base

SOUNDERS & VISUAL INDICATORS

F/CH/ZP755V-P	£81.25	Ziton white surface mounting visual alarm indicator with clear lens
F/CH/ZP755HAV-2P	£106.75	Ziton omnidirectional visual sounder indicator, white
F/CH/ZP755BV-4P	£81.25	Ziton white surface mounting addressable base sounder visual indicator
F/CH/ZP755B-2P	£56.00	Ziton white omnidirectional visual sounder indicator
F/CH/ZP755R-2R	£65.50	Ziton red room sounder complete with cover
F/CH/ZP755WV-2R	£224.75	Ziton red weatherproof horn sounder indicator
F/CH/ZP755W-R	£224.75	Ziton red weatherproof horn sounder

CALL POINTS

F/CH/ZP785-3	£54.25	Ziton red flush mounting analogue call point
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INPUT / OUTPUT MODULES

F/CH/A45E-2	£48.00	Ziton A series mini interface unit
F/CH/A50E-2	£71.25	Ziton A series mini relay unit
F/CH/A51E-1	£107.25	Ziton A Series mini relay unit, mains switching
F/CH/A60E-2	£55.50	Ziton A Series mini isolator unit
F/CH/A70E-2	£194.50	Ziton conventional interface
F/CH/SMB-DIN1	£18.00	Ziton surface box for A series modules, IP66 (2 single or 1 double)
F/CH/SMB-DIN2	£27.50	Ziton surface box for A series modules, IP66 (4 single or 2 double)

OTHER ACCESSORIES

F/CH/ZP755-COV-P	£6.25	Ziton white cover
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NEW Soteria

PRODUCT OVERVIEW

Introducing Soteria® powered by Coreprotocol® Apollo's most advanced fire detection system.

Apollo fire detectors, the world-leading independent fire detector manufacturer,

is pleased to present the latest products in its innovative fire detection system range Soteria® and Coreprotocol®.

The Soteria® collection offers the next generation in fire recognition technology and has been developed to improve detection, reduce false alarms and deliver improved reliability.

Complementing Soteria® is Apollo's enhanced protocol, Coreprotocol®, the next generation in fire loop communication giving greater control, higher levels of efficiency and significantly more loop power.

Currently covering heat and optical detection areas- either individually or in innovative combinations- the exclusive technology incorporated into the Soteria range offers an unrivalled host of benefits, including:

- Enhanced reliability of smoke detection
- Reduction in false alarms
- Simple installation with a new easy-fit base and an isolator located in the head.
- PureLight® technology
- A sleek and stylish low profile design
- Compatible with XP95 & Discovery protocols
- Comprehensively tested to exceed EN54 standards
- Extensively tested at Apollo's state of the art in-house testing facilities

Intelligence Defined- Less false alarms

Using a dedicated team of industry experts, Apollo has developed the Soteria® collection to include a range of new features which can offer unique benefits to the fire detection market.



Heat Detector

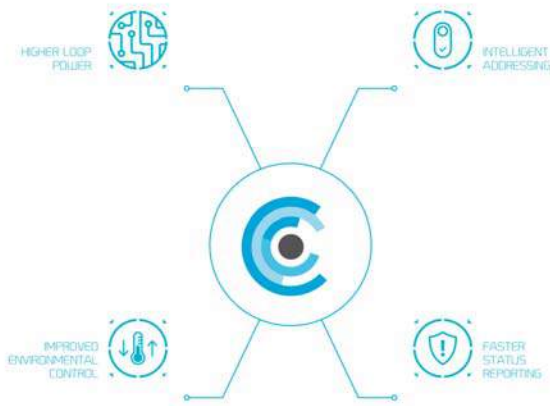
NEW Soteria

Coreprotocol®

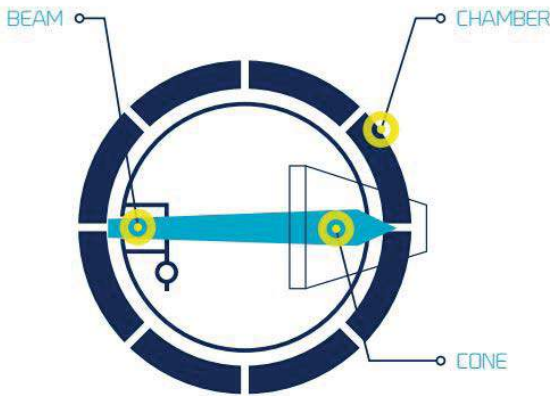
At Apollo we know that effective fire detection isn't just about the detectors, which is why we've developed our enhanced protocol, Coreprotocol®, the next generation in fire loop communication.

Building on our established XP95 and discovery technology, Coreprotocol® supports more devices through increased power on the loop and soft addressing. It also boasts enhanced status reporting, reduced intallation costs and improved system versatility.

Coreprotocol® offers forward and backward compatibility and the ability to manage a significantly increased number of devices and, when used in conjunction with Soteria®, offers improved features.

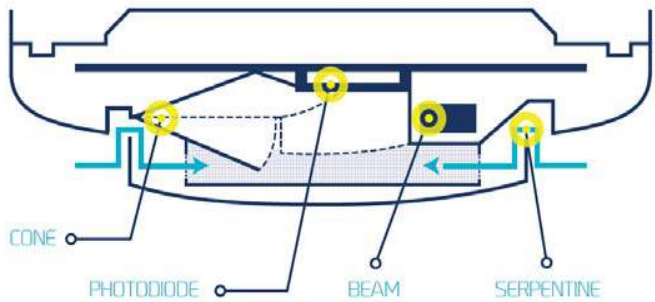


Cone Technology



Purelight Technology

The Soteria® collection uses new optical sensing technology, Purelight®, to detect smoke particles entering its chambers. This unique system marks a new stage in the development of Apollo optical technology and increases the reliability of fire detection while resulting in fewer false alarms.



The smoke chamber of the detector is a unique cone shape which serves to reduce any stray reflection. This ultra-dark internal light chamber also contains a high-intensity infra-red LED that is highly sensitive to smoke particles. When smoke enters the chamber, infra-red light is scattered and registered by the photodiode and amplifier that are included in an application-specific integrated circuit. This circuit ensures long term reliability, even in extreme conditions.

PRODUCT CODE	PRICE	DESCRIPTION
Soteria Mid Level Detectors with Isolator		
F/SA5100-600APO	POA	Soteria Optcal Smoke Detector with Isolator
F/SA5100-400APO	POA	Soteria Heat Detector with Isolator
F/SA5100-700APO	POA	Soteria Optical/Heat Multisensor Detector with Isolator
Soteria Mid Level Detectors without Isolator		
F/SA5000-600APO	POA	Soteria Optical Smoke Detector without Isolator
F/SA5000-400APO	POA	Soteria Heat Detector without Isolator
F/SA5000-700APO	POA	Soteria Optical/Heat Multisensor Detector without Isolator
F/SA5000-200APO	POA	Xpert8 Intelligent Mounting Base

Hochiki ESP Protocol

✓ EN54 Third Party Approved

PRODUCT OVERVIEW

Hochiki's Intelligent range of automatic fire detection and alarm equipment is designed and manufactured to the highest international standards, offering life safety products and systems of incomparable reliability. This extensive range of products includes high performance sensors, a wide selection of input and output modules, and ancillaries. All products use Hochiki's high integrity communications link, ENHANCED SYSTEM PROTOCOL (ESP) that is fundamental to the range.

Specified in many prestigious buildings, ESP is a secure, expandable digital protocol that, together with Hochiki's Intelligent range of devices, is the premier choice for system designers.

The protocol can support up to 240 different codes, ensuring that future products can be accommodated with ease.

PRODUCT FEATURES

- Removable, high performance chamber
- Twin fire LEDs allow 360 viewing
- Locking mechanism (sensor to base)
- Variable sensitivity - Electronically addressed
- All base fixing centres are 48 - 74mm
- Approved by LPCB & VdS

DETECTORS



Above Left to right:
F/CH/ATJ-EN(WHT) (Analogue heat sensor - white) &
F/CH/ACC-EN (Multi-sensor - photoelectric and heat - ivory)

SOUNDERS & VISUAL INDICATORS



Top Row, left to right: F/CH/CHQ-WS2/R, F/CH/CHQ-WSB2(WHT) & F/CH/CHQ-WSB2/R. Bottom Row, left to right: F/CH/YBO-BS, F/CH/YBO-BSB/WHT & F/CH/CHQ-AB/WHT



CALL POINT



F/CH/HCP-W(SCI) (Weatherproof addressable call point with SCI red)

ISOLATORS



F/CH/YBN-R/3(SCI)(WHT) Short circuit isolator base - white

MODULES & CONTROLLERS



Top right: F/CH/CHQ-POM (Powered output module)
Top left: F/CH/CHQ-SIM (Single input module)
Bottom left: F/CH/CHQ-MRC2/SCI (Mains relay controller with SCI)

PLEASE NOTE:

- Please refer to our website to view Typical System Installation diagrams and download further Technical Information
- Should you require assistance in specifying from Hochiki Protocol - please contact your local Territory Manager or Internal Account Executive

Hochiki ESP Protocol

✓ EN54 Third Party Approved

ACCESSORIES



F/CH/SR/MOUNTING BOX
Surface Mounting Box Red



F/CH/SI/CAP
Base Sounder / Isolator Cover



F/CH/TCH-B100
ESP Programmer & PL-3 Lead

DETECTORS

F/CH/ALN-EN	£47.85	Photoelectric smoke sensor - ivory
F/CH/ALN-EN(WHT)	£47.85	Photoelectric smoke sensor - white
F/CH/ACC-EN	£69.50	Multi-sensor - photoelectric and heat - ivory
F/CH/ACC-EN(WHT)	£69.50	Multi-sensor - photoelectric and heat - white
F/CH/ATJ-EN	£50.00	Analogue heat sensor - ivory
F/CH/ATJ-EN(WHT)	£50.00	Analogue heat sensor - white
F/CH/YBN/R/3	£4.00	Sensor mounting base

ISOLATORS

F/CH/YBN-R/3 (SCI)	£22.95	Short circuit isolator base - ivory
F/CH/YBO-R/SCI/W	£26.00	Short circuit isolator base white for CHQ-WS2 (WHT)
F/CH/YBO-R/SCI/R	£26.00	Short circuit isolator base red
F/CH/YBO-R/3(RED)	£3.50	Mounting base red
F/CH/YBO-R/3/WHT	£3.50	Mounting base white

SOUNDERS & VISUAL INDICATORS

F/CH/YBO-BS (WHT)	£49.00	Addressable base sounder white
F/CH/YBO-BSB/WHT	£80.75	Addressable base mounted sounder/indicator white
F/CH/CHQ-WS2/R	£67.75	Wall sounder red
F/CH/CHQ-WPK	£14.25	Weatherproof kit
F/CH/CHQ-WPK/WHT	£14.25	Weatherproof kit white
F/CH/CHQ-WSB2/RL	£95.00	EN54-23 Compliant Wall sounder / indicator - Red case, red LED's
F/CH/CHQ-WSB2(WHT)RL	£95.00	EN54-23 Compliant Wall sounder / indicator - White case, red LED's
F/CH/CHQ-WSB2/WL	£95.00	EN54-23 Compliant Wall sounder / indicator - Red case, white LED's
F/CH/CHQ-WSB2(WHT)WL	£95.00	EN54-23 Compliant Wall sounder / indicator - White case, white LED's

CALL POINTS

F/CH/HCP-E(SCI)	£54.50	Addressable call point with SCI red
F/CH/HCP-W(SCI)	£204.75	Weatherproof addressable call point with SCI red

MODULES & CONTROLLERS

F/CH/CHQ-DSC/SCI	£143.00	Dual sounder controller with SCI
F/CH/CHQ-DZM/SCI	£178.50	Dual zone monitor with SCI
F/CH/CHQ-MRC2 (SCI)	£86.25	Mains relay controller with SCI
F/CH/CHQ-SZM/SCI	£88.25	Single zone monitor with SCI
F/CH/CHQ-SIM	£49.50	Single input module
F/CH/CHQ-POM	£50.50	Powered output module
F/CH/CHQ-SOM	£56.95	Single output module

ACCESSORIES

F/CH/SI/CAP	£2.00	Base sounder/isolator cover
F/CH/SI/CAP(WHT)	£2.00	Base sounder/isolator cover white
F/CH/CHQ-ADAPTER	£5.75	Adapter for new CHQ modules
F/CH/SR/MOUNTING BOX	£3.00	Surface mounting box red
F/CH/SCP/KEY	£1.25	Reset STI call point keys with pips - 1 piece
F/CH/TCH-B100	£158.25	ESP programmer & PL-3 lead

Nittan Protocol

✓ EN54 Third Party Approved

PRODUCT OVERVIEW

The Nittan Group has been at the very forefront of the international fire protection industry since 1954 and Channel are proud to be specialist distributors of the latest breed of conventional and analogue fire device ranges.

Suitable for residential, commercial or industrial premises this

sophisticated range of optical smoke and heat detectors come finished in white ABS housings that are IP42 rated. Furthermore, the Sensortec and Evolution analogue addressable ranges are fully approved to EN54.

Nittan devices are compatible with the majority of our addressable fire detection panels, but for additional expertise on this innovative range contact a member of staff on 0845 884 7000 or send us an enquiry to sales@channelsafety.co.uk

PRODUCT FEATURES

- Up to 254 addresses per loop for flexible system design
- Built to exceptional marine standards for reliability and long life
- Unique, award-winning Dual Optical technology
- High speed FSK protocol, uniquely resistant to noise
- 'Omniview' 360° Alarm Indicator
- Modern, sleek design
- Full range of devices Lightweight compact designs
- All Evolution products come with either LPCB, VdS, DBI EN54 or Intertek Approvals and are Approved by LPCB & VdS

DETECTORS



Far Right, top to bottom: F/CH/UB4-EV-AB, F/CH/UB4-EV-AB, F/CH/UB4-EV-AB
Left, Base: F/CH/STB-4SE-EV

PROGRAMMING ACCESSORIES



Left to Right: F/CH/UB4-EV-AB (Programming Adaptor Plate EV-AV2 / SB), F/CH/UB4-EV-AB (Address Programming Tool)



SOUNDERS & VISUAL INDICATORS



LEFT
F/CH/UB4-EV-AB
Model: EV-HIOP-SB(IC)
High Output Sounder/
Beacon
F/CH/UB4-EV-AB
Model: EV-HIOP-SDR(IC) -
High Output Sounder



RIGHT
F/CH/UB4-EV-AB
Model: EV-AV2 - Ceiling/Wall
Mounted Sounder/Beacon
F/CH/UB4-EV-AB
Model: EV-ABS - Analogue Base
Mountable Sounder (Supplied
Without Base)

CALL POINTS



Left to Right: F/CH/UB4-EV-AB (Analogue Reset Surface Mount Evolution Call Point c/w Back Box & Wall Plate (IP24) & F/CH/UB4-EV-AB (Analogue Evolution Reset Weatherproof Callpoint (IP67 rated)

MODULES



F/CH/UB4-EV-AB
Zone Monitor
Module (Requires Ext 24v PSU)

Nittan Protocol

✓ EN54 Third Party Approved



DETECTORS

F/CH/UB4-EV-AB	£52.50	Analogue dual photoelectric detector
F/CH/UB4-EV-AB	£42.50	Analogue rate of rise heat detector
F/CH/UB4-EV-AB	£42.50	Analogue hi temp heat detector 84°C
F/CH/UB4-EV-AB	£46.75	Analogue photoelectric & A1R heat detector
F/CH/UB4-EV-AB	£75.75	Analogue photoelectric detector c/w in-built sounder
F/CH/UB4-EV-AB	£3.25	Base - for use with EV analogue detectors

SOUNDERS & VISUAL INDICATORS

F/CH/UB4-EV-AB	£3.25	Base for UB4-EV-AB for EV-ABS sounders
F/CH/UB4-EV-AB	£5.25	Vector cap plate (white) for EV-ABS
F/CH/UB4-EV-AB	£5.25	Vector cap plate (red) for EV-ABS
F/CH/UB4-EV-AB	£71.25	Ceiling/wall mounted sounder/visual indicator
F/CH/UB4-EV-AB	£73.00	Sounder/visual indicator base
F/CH/UB4-EV-AB	£101.75	High output sounder/visual indicator
F/CH/UB4-EV-AB	£81.50	High output sounder

CALL POINTS

F/CH/UB4-EV-AB	£45.25	Analogue reset surface mount evolution call point c/w back box & wall plate (IP24 rated)
F/CH/UB4-EV-AB	£134.00	Analogue evolution reset weatherproof callpoint (IP67 rated)
F/CH/UB4-EV-AB	£4.75	Clear cover

MODULES

F/CH/UB4-EV-AB	£59.75	Mini input module
F/CH/UB4-EV-AB	£65.50	Output module
F/CH/UB4-EV-AB	£71.25	Input module
F/CH/UB4-EV-AB	£93.25	Single input/output module
F/CH/UB4-EV-AB	£86.00	Sounder control module (requires Ext 24 VPSU)
F/CH/UB4-EV-AB	£100.25	Zone monitor module (requires Ext 24 V PSU)

PROGRAMMING ACCESSORIES

F/CH/UB4-EV-AB	£145.50	Address programming tool
F/CH/UB4-EV-AB	£29.25	Programming adaptor plate
F/CH/UB4-EV-AB	£203.50	Programming kit - EV-AD2, module addressing lead, EV-AVADAPT, HIOP lead

PLEASE NOTE:

- Compatible with Firewatch panels FW 9003 - see page 73.
- We have portrayed the most commonly used Nittan devices here - yet for further options please contact our sales department on 0845 884 7000 or email sales@channelsafety.co.uk.

IMPORTANT NOTE:

- Nittan's extensive range of Evolution Analogue Modules are designed for the monitoring and controlling of many types of third party equipment.
- All Nittans modules are approved to EN54-18:2005

REGULATORY INFORMATION:

- All wiring must conform to the current edition of IEE Wiring regulations and BS5839 Part 1. All loop Cable Screens shall be connected together, but must be Isolated from Ground. Cable Screens shall be connected to Earth Ground within the Control Panel ONLY.

NEW

ZFP 1-8 Loop Touchscreen Fire Panel ✓ EN54 Third Party Approved

PRODUCT OVERVIEW

C-TEC's revolutionary 1-8 loop touchscreen controlled addressable fire panel.

PRODUCT FEATURES

- Third-party certified to the relevant parts of EN54-2/4
- Apollo XP95/Discovery protocol
- User-friendly full-colour touchscreen
- Three cabinet sizes- standard, medium and large
- Up to 8 loops per panel
- Up to 64 eight-loop peer to peer panel network capacity
- Hi-integrity networking
- Multiple 'A-Bus' expansion PCBs
- Up to 10,000 programmable detection zones
- 20-way heavy duty brass earth bar as standard
- Powerful engineering and commissioning functions
- Attractive compact controllers
- In addition to the products listed, larger 4-8 loop ZFP Panels are available in bigger cabinets



ZFP 1-4 Loop Touchscreen Fire Panel (No zonal LEDs)		
F/Z0130000S/X	POA	ZFP 1 Loop Touchscren Fire Panel
F/Z0230000S/X	POA	ZFP 2 Loop Touchscren Fire Panel
F/Z0430000S/X	POA	ZFP 4 Loop Touchscren Fire Panel
ZFP Touchscreen Fire Panel with 20 Zonal LEDs		
F/Z013020NS/X	POA	ZFP 1 Loop Touchscren Fire Panel with 20 LEDs
F/Z023020NS/X	POA	ZFP 2 Loop Touchscren Fire Panel with 20 LEDs
F/Z043020NS/X	POA	ZFP 4 Loop Touchscren Fire Panel with 20 LEDs
ZFP Touchscreen Fire Panel with 40 Zonal LEDs		
F/Z013040NS/X	POA	ZFP 1 Loop Touchscren Fire Panel with 40 LEDs
F/Z023040NS/X	POA	ZFP 2 Loop Touchscren Fire Panel with 40 LEDs
F/Z043040NS/X	POA	ZFP 4 Loop Touchscren Fire Panel with 40 LEDs

ZFP 1-4 Loop Touchscreen Fire Panel (No zonal LEDs)

Effectively mini-repeaters. Include a touchscreen control module (Z41) and a 'Hi-NET' fault-tolerant network PCB (ZHN). Up to 64 can be networked on a ZFP system. Each controller requires a seperate EN54-4/A2 boxed PSU.

PRODUCT CODE	PRICE	DESCRIPTION
F/ZREP1F	POA	ZFP Compact Controller (Flush)
F/ZREP1S	POA	ZFP Compact Controller (Surface)
PRODUCT CODE	PRICE	DESCRIPTION
F/ZBEZS	POA	Flush-fit besel for standard frame
F/ZBEZDS/SS	POA	Glazed stainless steel frame for standard ZFP
F/ZHN	POA	ZFP 'Hi-NET' Multi-path fault tolerant network PCB
F/Z11	POA	ZFP 4 Relay PCB
F/Z12	POA	ZFP 8 Relay PCB
F/Z13	POA	ZFP 8 input output PCB
F/Z14	POA	ZFP 16 input output PCB
F/Z15	POA	ZFP 4 Conventional 1A 6K8 Sounder Circuit PCB
F/Z16	POA	ZFP 4 Detection Zone & 2 1A 6K8 Sounder Circuit PCB
F/Z44	POA	ZFP 20 zone indicator module c/w name slots
F/Z45	POA	ZFP 20 zone indicator module c/w name slots & 5 switches
F/Z46	POA	ZFP 20 zone indicator module c/w name slots, printer & 2 switches
F/Z47	POA	ZFP 40 zone indicator module c/w name slots
F/Z48	POA	ZFP 40 zone indicator module & 5 switches
F/Z49	POA	ZFP 40 zone indicator module c/w printer & 2 switches
F/Z50/1-100	POA	ZFP 100 zone indicator module, numbered 1-100
F/Z50/101-200	POA	ZFP 100 zone indicator module, numbered 101-200
F/Z51	POA	ZFP printer module
F/ZBLANK	POA	Blank Module
F/ZTOOLS	POA	ZFP Programming Software

Firebeam

✓ EN54 Third Party Approved

FEATURES

The firebeam specialist detection system is reliable and easy to maintain, and more importantly it will reduce the risk of expensive false alarms and misalignment faults.

Beam detectors offer a cost effective solution for protecting large open spaces. One single unit installed on a wall can detect smoke over an area up to 1500m² (BS5839), which is beyond that of traditional point detectors.

IDEAL FOR PROTECTING AREAS SUCH AS:-

- Warehouses
 - Theatres
 - Sport centres
- Places of worship
 - Atriums
 - Supermarkets

MID RANGE DISTANCE KITS (40-80 METRES)

Designed to cover distances between 40 and 80 metres, the Fire Beam Mid Range Kit is a clear acrylic plate with 3 extra reflectors attached.

LONG RANGE DISTANCE KIT (80-100 METRES)

Designed to cover distances between 80 and 100 metres, the Fire Beam Long Range Kit is a clear acrylic plate with 8 extra reflectors attached.

Simply add the Single Reflector that is provided with the standard Fire Beam into the spare space on the plate using the screws provided. Firebeam is designed to fully comply with EN 54 part 12. and exceeds European standards, in particular BS5839 part 1.

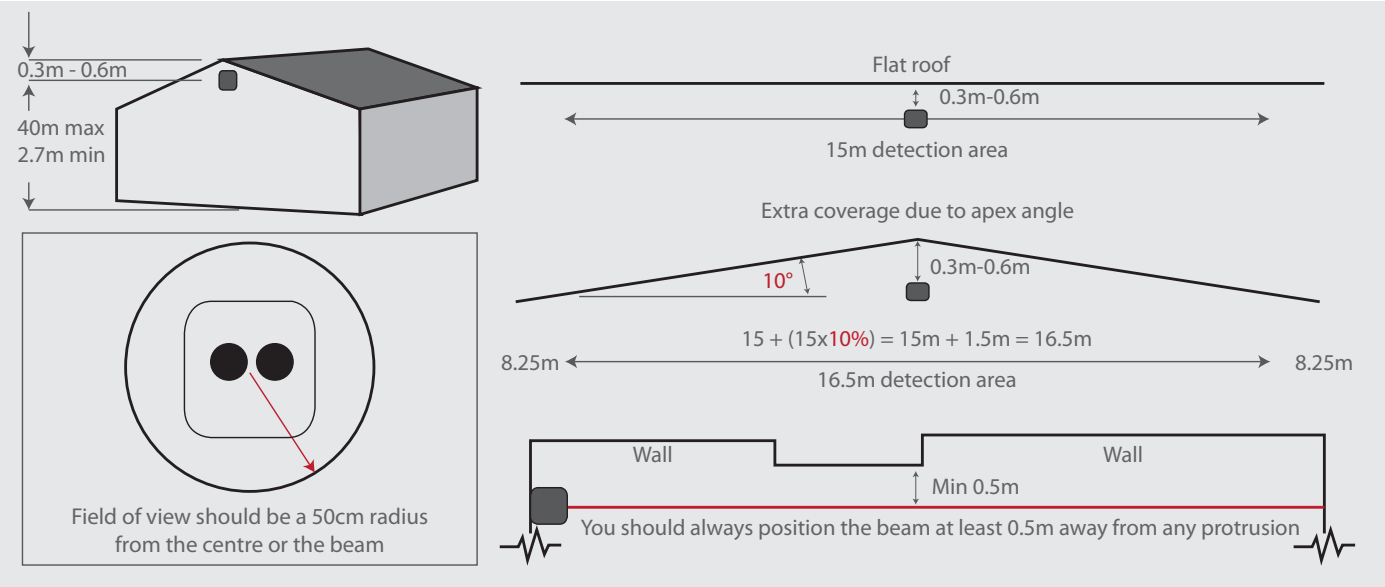


PLEASE NOTE:

- For further information on this specilaist range, you can scan the QR code or contact our sales office on 0845 884 7000.

PRODUCT CODE	PRICE	DESCRIPTION
SELF ADJUSTING BEAMS		
F/CHBM/SA	£693.50	Self adjusting beam detector 5 - 40m range
F/CHBM/80/KIT	£83.25	40 - 80m range kit for CHBM/SA
F/CHBM/100/KIT	£220.00	80 -100m range kit for CHBM/SA
F/CHBM/ADAPTER	£131.50	Unistrut Adapter for CHBM/SA
ANTI-FOG KITS		
SP/CHBM/40KIT80	£162.50	Anti-Fog 40-80m range kit for CHBM/SA
SP/CHBM/100/KIT	£197.75	Anti-Fog 80-100m range kit for CHBM/SA £197.75

DISTANCE & POSITION GUIDELINES



Zerio Plus- Wireless

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PRODUCT FEATURES

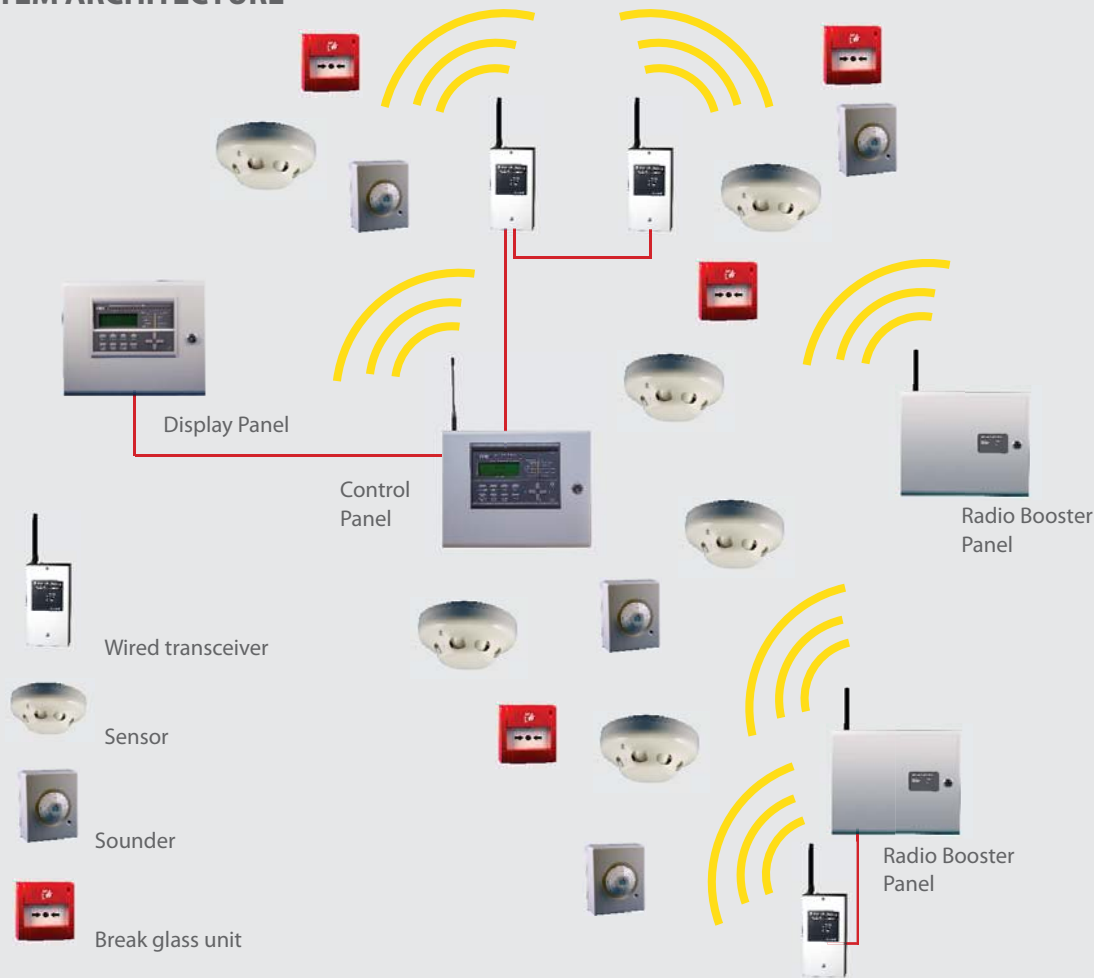
- EN54 Compliant
- 240 Fully Addressable Devices
- Sophisticated Cause and Effects
- In-built HMO options
- Pluggable Memory Module for Back-up
- USB Keyboard to program
- Configuration Reporting via USB Memory Stick
- Intuitive Menu Structure
- 5 Access Levels
- Compatible with full range of Zerio Plus Devices
- Simple to Set-up

TYPICAL APPLICATIONS

- Large office blocks
- Hotels
- Small shops
- Restaurants



SAMPLE SYSTEM ARCHITECTURE



Please note:

- A site survey required on all wireless equipment prior to installation
- A free design service is offered upon receipt of contract awarded - for further details contact our sales office on 0845 884 7000

Zerio Plus- Wireless

✓ EN54 Third Party Approved

DETECTORS

SOUNDERS & CALL POINT

OTHER ACCESSORIES



Back to Front:

F/EDA-D6000, F/EDA-R6000,
F/EDA-R5000, F/EDA-D5000 & F/EDA-R6030

Back to Front:

F/EDA-A6000, F/EDA-A6030
F/EDA-C5000

Back to Front:

F/EDA-T6080, F/EDA-T5100,
F/EDA-Z6000 & F/EDA-Y5000

PANELS	PRICE	DESCRIPTION
F/EDA-Z5008	£925.00	8 zone Zerio Plus control panel (requires 12/7 battery - listed below)
F/EDA-Z5020	£1,191.25	20 zone Zerio Plus control panel (requires 12/7 battery - listed below)
DEVICES		
F/EDA-R5000	£231.50	Zerio Plus optical smoke detector (replacement battery 1 x S/BATT/EDA-Q690 battery - listed below)
F/EDA-R6000	£433.00	Zerio Plus optical smoke detector complete with sounder (replacement battery 2 x S/BATT/EDA-Q690 batteries - listed below)
F/EDA-R6030	£515.75	Zerio Plus optical smoke detector complete with sounder visual indicator (replacement battery 1 x S/BATT/EDA-Q690 battery - listed below)
F/EDA-D6000	£421.25	Zerio Plus heat detector complete with sounder
F/EDA-D5000	£219.50	Zerio Plus heat detector (replacement battery 1 x S/BATT/EDA-Q690 battery - listed below)
CALL POINT		
F/EDA-C5000	£213.75	Zerio Plus call point (replacement battery 1 x S/BATT/EDA-Q690 battery - listed below)
SOUNDERS AND VISUAL INDICATORS		
F/EDA-A6000	£314.50	Zerio Plus radio sounder (replacement battery 3 x S/BATT/EDA-Q690 batteries - listed below)
F/EDA-A6060	£385.25	Zerio Plus radio beacon (replacement battery 3 x S/BATT/EDA-Q690 batteries - listed below)
F/EDA-A6030	£515.75	Zerio Plus Optical smoke detector c/w Sounder Beacon
INTERFACE UNITS		
F/EDA-T6080	£421.25	Zerio Plus radio clean contact input / output unit (replacement battery 1 x S/BATT/EDA-Q690 battery - listed below)
BOOSTERS AND AERIALS		
F/EDA-Z6000	£731.50	Zerio Plus booster panel (requires 240v supply)
F/EDA-Z6010	£385.25	Zerio Plus hard wired booster panel
F/EDA-Z5008SZ	£796.50	Zerio Plus wired remote display (standard enclosure)
F/EDA-Y5000	£174.75	High gain antenna for use with Zerio Plus
ACCESSORIES		
F/EDA-Z5000	£518.50	Zerio Plus survey kit
BATTERIES		
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)
S/BATT/EDA-Q690	£25.25	Zerio Plus - 2 Cell lithium battery assembly

Apollo XPander

✓ EN54 Third Party Approved

PRODUCT OVERVIEW

XPander is Apollo's wireless intelligent detector range. Detectors are often installed in buildings where wiring presents a challenge. This could be because the fabric of the building or its design will be negatively affected by the use of cables. It is sometimes very difficult to introduce cable runs into buildings which were not designed for the modern age. It is for these architecturally sensitive buildings that XPander has been developed.

XPander is a system in which individual detectors, call points and alarm devices communicate with the XP95 loop by radio signals. An interface is connected to the loop in the same way as any other interface, such as an Input/Output Unit.

Every XPander device is assigned an address and this address is recognised by the control panel in the same way as is the address of any device connected directly to the loop wiring.

THE XPANDER RANGE CONSISTS OF...

- Optical Smoke Detector
- A1R Heat Detector
- CS Heat Detector
- Sounder
- Sounder Beacon
- Manual Call Point
- Interface Module

The inclusion of alarm devices such as the sounder beacon help make XPander systems compliant with the Disability Discrimination Act.

PRODUCT FEATURES

- Easy to install
- XPERT card addressing
- Self-monitoring
- Proven technology
- No special control panel needed
- 868MHz radio channels
- Up to 32 devices per interface
- Up to 5 interfaces per loop
- Analogue addressable system expansion
- Wireless
- Eliminates cabling difficulties
- Minimises building disruption
- Enables Rapid Retro-fit
- Preserves aesthetics

All detectors within the XPander range are sold with mounting bases

TYPICAL APPLICATIONS

XPander can be incorporated into fire detection systems where the use of fire cables is either impractical or undesirable, including stately homes and architecturally sensitive buildings.



Please note:

- A site survey is required on all wireless equipment prior to installation
- A free design service is offered upon receipt of contract awarded - for further details contact our sales office on 0845 884 7000

Apollo XPander

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DETECTORS

Right:
F/CHHM/XPAND
60°C Heat Detector

Left:
F/CHSM/P/XPAND
Optical Smoke Detector



SOUNDERS & VISUAL INDICATORS



Back:
F/CHWB/XPAND
Sounder - 100db

Front:
F/CHWB/BN/XPAND
Sounder Visual Indicator - 100db

COMBINED SOUNDERS & VISUAL INDICATORS



Left: F/CHSM/P/WB/BN/XPAND
Sounder-indicator (red) and
optical detector

Right: F/CHSM/P/WB/XPAND
Sounder and optical smoke
detector

CALL POINT & ACCESSORIES



Right: F/CHBG/XPAND
Break Glass Unit

Left: F/CH/XPAND/SVU
Survey Unit



PRODUCT CODE	PRICE	DESCRIPTION
DETECTORS		
F/CHSM/P/XPAND	£243.25	(XPA-CB-12034) XPander wireless optical smoke detector
F/CHHM/XPAND	£238.00	(XPA-CB-11170) XPander wireless (60°C) heat detector
SOUNDERS & VISUAL INDICATORS		
F/CHWB/XPAND	£290.75	(XPA-CB-14001) XPander wireless sounder - 100db (red)
COMBINED DETECTORS / SOUNDERS		
F/CHSM/P/WB/XPAND	£450.50	(XPA-CB-14016) XPander combined sounder and optical smoke detector
F/CHHM/WB/XPAND	£450.50	(XPA-CB-14017) XPander combined sounder and heat detector (class A1R)
F/CHHM/HT/WB/XPAND	£450.50	(XPA-CB-14018) XPander combined sounder and heat detector (class CS)
COMBINED DETECTORS / SOUNDERS / VISUAL INDICATORS		
F/CHSM/P/WB/BN/XPAND	£466.00	(XPA-CB-14020) XPander combined sounder-indicator (red) and optical detector
F/CHHM/WB/BN/XPAND	£466.00	(XPA-CB-14021) XPander combined sounder-indicator (red) and heat detector (class A1R)
F/CHHM/HT/WB/BN/XPAND	£466.00	(XPA-CB-14022) XPander combined sounder-indicator (red) and heat detector (class CS)
F/CHSM/P/WB/BNC/XPAND	£466.00	(XPA-CB-14024) XPander combined sounder-indicator (clear) and optical smoke detector
F/CHHM/WB/BNC/XPAND	£466.00	(XPA-CB-14025) XPander combined sounder-indicator (clear) and heat detector (class A1R)
F/CHHM/HT/WB/BNC/XPAND	£466.00	(XPA-CB-14026) XPander combined sounder-indicator (clear) and heat detector (class CS)
CALL POINTS		
F/CHBG/XPAND	£290.75	(XPA-MC-14006) XPander wireless break glass unit
INTERFACES AND AERIALS		
F/CHIF/XPAND	£380.50	(XPA-IN-14050-APO) XPander interface module (loop powered) with isolator
ACCESSORIES		
S/XPERT TAG	£4.00	(29600-399) XPander blank xpert card red
S/XPERT TAG/WH	£4.00	(29600-413) XPander blank xpert card white
F/CH/XPAND/SVU	£430.00	Survey Unit



Installed in the Royal Albert Hall



Rapidfire™ - Wireless

PRODUCT OVERVIEW

The wireless Rapidfire system from Channel has been designed for site protection for temporary buildings, as well as other potential uses such as:

- Sheds/outhouses
- Porta-cabins
- Caravan parks
- Building sites

PRODUCT FEATURES

- Enables rapid installation!
- Quick and simple to install, with no mains supply required.
- Completely wireless system can support up to 10 devices
- Rapidfire can also be connected to an existing fire alarm system via an interface module.



BASE ALARM FEATURES

- Dimensions: 245mm(H) 135mm(W) 75mm(D)
- Lithium battery power supply (Up to 12 year battery life)
- Up to 100m connection range in clear open areas
- 90 dB alarm
- Additional base units can be used in place of standard manual call points where louder sounder is required

MANUAL CALL POINT FEATURES

- Dimensions: 115mm(H) 105mm(W) 80mm(D)
- Resetting key included
- Surface mounted in any position within 100m open range of the sounder/flasher base unit
- Up to 10 year battery life

OPTICAL SMOKE FEATURES

- Dimensions: 115mm(Ø) 70mm (H)
- Sealed in lithium battery with up to 10 year life
- Locking device (anti-vandalism)
- Low battery warning & low signal warning

WIRELESS INTERFACE FEATURES

- Dimensions: 83mm (H) 83mm (W) 46mm (D)
- Up to 100m range in open area conditions
- 12V Power connection required
- Unlimited connection capacity



PRODUCT CODE	DESCRIPTION		PRICE
F/CHRP/MASTER	£131.50	Rapidfire base alarm unit	
F/CHRP/BGU	£56.00	Rapidfire wireless manual call point	
F/CHRP/OPT/WB	£51.25	Rapidfire wireless optical smoke detector	
F/CHRP/WI	£90.00	Rapidfire wireless interface	

A GUIDE TO CHECKING RADIO SIGNAL STRENGTH

NUMBER OF BLEEPS	1	2	3	4	5
SIGNAL STRENGTH	VERY POOR +	POOR ++	MEDIUM +++	GOOD ++++	VERY GOOD +++++
	NOT ACCEPTABLE!		ACCEPTABLE		

Vesda

✓ EN54 Third Party Approved

PRODUCT RANGE OVERVIEW

Vesda Aspirating equipment systems can be equipped with modules to detect hazardous/combustible gases to extend their value beyond smoke detection to include gas detection and environmental monitoring. Vesda is a very early warning aspirating smoke detector; with continuous air sampling, it provides the earliest possible warning of an impending fire hazard.

VESDA LASERFOCUS

The VESDA LaserFOCUS delivers advanced and cost-effective very early warning for small environments. The Vesda LaserFOCUS model protects areas upto 250m² (2,500 sq.ft), and the covers upto 500m² (5,000 sq.ft). In addition to world leading and well-established Vesda features the LaserFOCUS provides a new range of features and built-in intelligence for quick installation, commissioning and servicing

VESDA LASERPLUS

The VESDA LaserPLUS is the flagship of the VESDA aspirating smoke detector product line. Like all Vesda destectors, it detects fire at the earliest possible stage and reliably measures very low to high concentrations of smoke. It has the worlds widest sensitivity range 0.005%–20% obscuration/m (0.0015%–6% obscuration/ft). Vesda LaserPLUS supports four configurable alarm levels (Alert, Action, Fire 1 and Fire 2) and protects areas upto 2,000m² (20,000 sq.ft).

VESDA LASERSCANNER

The VESDA LaserSCANNER locates the origin of smoke by indentifying the sector (pipe) with the highest level of smoke and then continues to sample air from all sectors to monitor fire growth. The Vesda LaserSCANNER also provides four alarm levels for each individual pipe (Alert, Action, Fire 1 and Fire 2) and provides individual pipe addressability and settings. It protects areas up to 2,000m² (20,000 sq.ft).

VESDA LASERCOMPACT

The VESDA LaserCOMPACT offers protection for small to medium areas that require cost-effective very early warning. It offers the same wide sensitivity range as the LaserPLUS and LaserSCANNER- 0.005 to 20% obs/m (0.0015 to 6% obs/ft). The Vesda Laser COMPACT supports three configurable alarm levels (Alert, Pre-alarm and Fire).

VESDA LASERQUANTUM

The Vesda LaserQUANTUM detector is a cost-effective ASD solution that meets the unique needs of numerous small area applications of up to 100m² (1,000 Sq.ft). Examples of these include landline remote offices, base station controllers, remote base stations, small server room and many other small important rooms. The LaserQUANTUM combines the benefits of very early warning with simplified and flexible ASD offering at the lowest cost of ownership possible.

VESDA FireTRACER

The Vesda FireTRACER is a unique and versatile high-sensitivity ASD that is capable of pinpointing the source of incipient smoke to speed response, enhance investigation, and minimise business disruption and downtime. This advanced detector provides intelligent addressability to identify up to 15 protected areas via microbore tubes.

VESDA - ACCESSORIES

The Vesda range of Pipes and Fittings have been specially developed to provide fully matched components for the optimal performance of your whole Vesda aspirating system.

They are also manufactured to comply with the requirements of BS5391 Part 1, EN 61386-1 and the new EN54 Part 20 guaranteeing you quality.

The pipes are a metric standard of 25mm external diameter with suitable adapters available for imperial to metric conversions and are designed for use with any make of low pressure aspirating type smoke detection system.

Unlike some metal pipes, Vesda ABS pipework is very light in weight. This makes it easy to handle in high and difficult places where systems are often installed.

HOW DOES VESDA WORK?

A Vesda detector is much like a vacuum cleaner. It sucks air from the protected environment via purpose built aspirating pipe and fittings and samples the quality of air passing through the Vesda detection laser chamber. Vesda detectors are available in a variety of models to accommodate a broad range of environments and applications. From small to very large, open spaces and from the cleanest to the dirtiest environments, Vesda provides reliable, high-sensitivity, very early warning smoke detection.

TYPICAL APPLICATIONS

Vesda delivers absolute protection across a wide range of industries and applications: Apartments, Hotels, Shops, Offices (and other accommodation), Correctional Facilities, Clean Rooms, Cold Storage, Hospitals and Health care, Insurance, Nuclear Facilities, Portable Switch Rooms, Power Generation, Records Storage, Transportation, Wind Power Generation & Warehousing.

TYPICAL SYSTEM ARCHITECTURE

The diagram below shows a typical installation of a Vesda Aspirating Detector with piping.

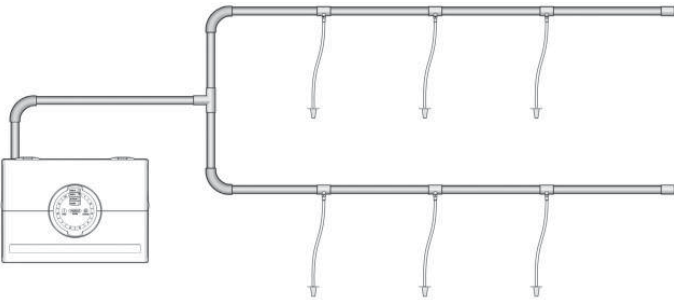
Features	VESDA					
	LaserPLUS	Laser SCANNER	Laser COMPACT VESDAnet (VN)	Laser COMPACT Relays Only	LaserFOCUS 250/500	FireTRACKER
Worldwide Certificates	UL, ULC, FM, ActivFire, LPCB, VdS, AFNOR, UL268A (in-duct application), NY-MEA, CSFM, CCCF, CPR, VNIPO					UL, ULC, FM, AFNOR, VdS, VNIPO, CPR
Hazardous Area Approval (FM Class 1, Div 2, Groups A, B, C, D)	Yes	No	Yes	Yes	Yes	No
Min Fire 1 Threshold	0.015% obs/m (0.0046% obs/ft)				0.025% obs/m (0.008% obs/ft)	0.01% obs/m (0.003% obs/ft)
Detection Range	0.005 - 20% obs/m (0.0015 - 6.25% obs/ft)				0.025 - 20% obs/m (0.0078 - 6.25% obs/ft)	0.001 - 20% obs/m (0.0003 - 6.25% obs/ft)
No. of Pipe Inlets	4		1		1	15
Two Stage Filtration	Yes	Yes	Yes	Yes	Yes	Yes
Area Coverage	2,000 m ² (21,520 sq ft)	2,000 m ² (21,520 sq ft) across 4 sectors	800 m ² (8,610 sq ft)		250/500 m ² (2,690/5,380 sq ft)	1,500 m ² (16,150 sq ft) across 15 sectors
Pipe Length (Linear)	200 m (656 ft)	200 m (656 ft)	80 m (262 ft)		25/50 m (82/164 ft)	15 x 50 m (45 x 164 ft)
Pipe Length (Branched)	400 m (1,312 ft)	400 m (1,312 ft)	100 m (328 ft)		30/60 m (98/197 ft)	N/A
Multiple Pipe Addressability	No	Up to 4	No	No	No	Up to 15
Total Number of Alarm Thresholds	4 (Day/Night)	16 (Day/Night)	3	3	4 (Day/Night)	60 (Day/Night)
Relay Outputs	7	7 or 12 relays	3	3	3 (Expandable to 6)	5 (Expandable to 21)
On-board Memory (Max. Events)	18,000	18,000	12,000	12,000	18,000	Up to 20,000
IP Rating	IP30	IP30	IP30	IP30	IP30	IP30
Features	VESDA					
	VLP	VLS	VLC VESDAnet (VN)	VLC Relays Only (RO)	VLF 250/500	VFT-15
AutoLearn™ (Smoke/Flow)	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	Yes (Smoke)	AutoLearn Smoke™ AutoLearn Flow™	No
EN54-20 Max. no of Holes (Class A / B / C)	30 / 60 / 100	40 / 40 / 60	30 / 36 / 40	30 / 36 / 40	VLF 250 12 / 12 / 12 VLF 500 30 / 30 / 30	45 / 45 / 60
Bar Graph/Indicator LED	Local or Remote (20 segment bargraph display)	Local or Remote (20 segment bargraph display)	Local (5 on-board LEDs). Remote (20 segment bargraph display)	Local (5 on-board LEDs)	Local (7 on-board LEDs 10 Segment Circular Display) Remote display when fitted with VESDAnet card	Yes
Programming Tools - On-board Programming module - Handheld Programmer - PC Software (VSC, VSM)	Yes	Yes	Yes	Programmed via RS232 direct connection to PC using VSC™	Programmed via RS232 direct connection to PC using VSC™ or Programmer when VN card is fitted	On-board programmer and PC Software (VSC/VSM4)
StaX Expandability	No	No	No	No	No	No
Analytics	No	No	No	No	No	No
VESDAnet™						
Max. No. of devices/detectors per loop	200 / 100	200 / 100	200 / 100	N/A	200 / 100 (with VN Card)	N/A
Max. Distance between Devices	1,300 m (4,265 ft)	1,300 m (4,265 ft)	1,300 m (4,265 ft)	N/A	1,300 m (4,265 ft) (with VN Card)	1,300 m (4,265 ft)
Computer-based Management via VSM	Yes	Yes	Yes	No	Yes	Yes
Remote Relay Modules - 7 relay version - 12 relay version	VRT-500 N/A	VRT-E00 VRT-900	VRT-500 N/A	N/A	VRT-500 N/A	VRT-E00 N/A VRT-900
Compatible Remote Bargraph Displays - Display, 7 relays - Display, 12 relays - Display, no relays	VRT-200 N/A VRT-600	VRT-400 VRT-800 VRT-700	VRT-J00 N/A VRT-K00	N/A	VRT-V00 N/A VRT-W00 (with VN Card)	N/A

PRODUCT FEATURES

- Reliable early detection warning
- Assured performance in challenging environments
- Superior suppression actuation
- Easy & low maintenance
- Reliable detection in large open spaces
- Flexible solution in any facility type
- Wide coverage
- Action before suppression
- Provides time for orderly evacuation
- Avoids risks to precious assets
- Business continuity
- Active air sampling
- Where smoke detection is a challenge
- Tolerant of harsh environments
- Detects smoke in a varied range of conditions and applications
- Prevents nuisance alarms
- Overcomes the effects of smoke dilution
- Security and inmate safety
- Vandalism prevention
- EN 54-20 compliant

Please contact us for other Vesda LaserPLUS and Vesda LaserSCANNER configurations!

VESDA LASERFOCUS		
F/CH/VLF-250	£2,013.25	Vesda laser focus detector max 25m pipe or 2 x 15m ('T' layout) 12 holes + PSU needed
VESDA LASERPLUS		
F/CH/VLP-400	£2,688.50	Vesda laser plus without display
F/CH/VLP-002	£4,964.75	Vesda laser plus with standard display
VESDA LASERSCANNER		
F/CH/VLS-204	£7,712.25	Vesda laser scanner 7 relay version with display
VESDA FIRETRACER		
F/VFT/15	POA	Vesda fine tracer- 15 microbore pipe system
VESDA LASERCOMPACT		
F/CH/VLC-500RC	£2600	Vesda Laser compact- relay output 1x80m or 2x50m
PIPING		
F/CH/PIP-001/1M	£17.00	1 x 3m length of pipe
F/CH/PIP-001/20	£144.75	20 x 3m length of pipe
ACCESSORIES		
F/CH/PIP-002	£8.50	25mm jointing socket x 10 pack
F/CH/PIP-003	£37.75	25mm socket union-screw tight-unit price (comes in pack x 10)
F/CH/PIP-005	£45.25	90 degree bend x 10 pack
F/CH/PIP-006	£12.75	45 degree bend 25mm x 10 pack
F/CH/PIP-007	£13.50	End cap 25mm x 10 pack
F/CH/PIP-008	£27.75	T piece 25mm x 10 pack
F/CH/PIP-009	£20.50	Pipe clip x 20 pack
F/CH/PIP-012	£18.50	Solvent cement
F/CH/PIP-014	£127.25	Pipe cutters
F/CH/PIP-015	£11.75	Flush sample point – head only
F/CH/PIP-016	£80.50	Trunk adaptor x 10 pack
F/CH/PIP-059-001	£23.75	Flush sample point assembly
F/CH/PIP-059-007	£29.50	Conical sampling point
F/CH/PIP-221-035	£114.50	10mm capillary pipe x 30m
F/CH/PIP-222-059	£7.25	Discrete end cap
F/CH/VSP-005	£114.50	Filter for all Vesda detectors
PSU's		
F/CH/VPS-215	£398.50	1.5A PSU – Vesda (requires 2 x B/12V/7AH/SLA batteries)
F/CH/VPS-220	£493.50	2A PSU – Vesda (requires 2 x B/12V/12AH/SLA batteries)
BATTERIES		
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)
B/12V/12AH/SLA	£42.00	12 Volt 12Ah sealed lead acid battery (1 block)



In this diagram the system incorporates the Vesda LaserFOCUS model



Images left to right: LaserCOMPACT, LaserFOCUS, LaserSCANNER 7 relay detector options

AOV Smoke Ventilation System

WHAT IS AN AOV?

AOV is simply an abbreviation for “Automatic Opening Vent”. An AOV system is a control system designed to vent air or smoke for use in natural & smoke ventilation.

SO WHY DO I NEED AN AOV SYSTEM?

AOV control systems are used mainly to control the ventilation of smoke in a fire. Changes to building regulations were made due to the results of investigations into smoke inhalation.

When a detector or call point is triggered an AOV control system will open actuators, windows or vents to create ventilation. This clears smoke for people leaving the building and vents smoke out of the area that has been triggered. The provisional standard that is now available for reference is EN:12101.

WHAT AOV PRODUCTS DO I NEED?

We supply 2 systems for AOV control; AOV single zone or AOV multi zone. Each panel can be triggered by detectors or call points. This will then activate actuators to open or close.

HOW DO I DECIDE WHICH AOV SYSTEM TO FIT?

You first need to decide what items you need to control on your system. You should work out how many items will need to open separately & then class each one as a zone. See the following examples:

Example 1

You have one roof vent or window which must open when the fire alarm is triggered...

In this situation you have 1 zone. You need to first see how the roof vent or window operates. If it is manual opening then you will need to add an AOV actuator which can be triggered to open or close. If there is already a fire system in place there may be smoke detectors fitted. In this situation you can link an AOV single zone to your fire system which will trigger when smoke is detected in that area. The AOV actuator when triggered will open, when reset it will close. Yellow call points can be added for override or system test. (If there is no fire system in place a detector can be fitted to trigger the system.)

Example 2

You have 4 floors, a window on each, and a vent for a shaft on the roof...

This situation would leave you with 5 zones. Here you would use an AOV multi zone panel which will be able to open/close each zone independently.

Under this condition it may be that the vent should open together with any zone that is triggered. (A roof vent will be on a smoke shaft or stairwell. Opening it together with a window will then create a chimney effect clearing smoke.)

In this case you can set the AOV multi zone with zone 1 as a “master”. A simple solution that will then trigger zone 1 together with any of the zones 2 - 5.

Again you would then need to add an actuator to each window/vent and either link to your existing fire system or add call points & smoke detectors to the AOV multi zone system to trigger.

Ventilation

The AOV product range specified on these pages can be used for natural ventilation or smoke ventilation.



PRODUCT FEATURES (SINGLE ZONE PANEL)

- For use on 1 zone where all items trigger together
- Independent system or interchangeable panel
- Triggers via a fire panel or an integrated loop
- Model options: 1.5A, 2.5A, 4A or 10A
- Enclosure size - 400 x 300 x 110mm
- Requires 2x B/12V/12AH/SLA Batteries

TYPICAL APPLICATIONS

- Small multiple occupancy building common areas
- Single stairwells - top window or roof vent
- End of corridor windows



PRODUCT FEATURES (MULTI ZONE PANEL)

- For larger systems that require more than 1 zone to trigger separately
- Independent system or intergratable panel
- Triggers via a fire panel or an independent loop
- Open or close all zones with firemans call point
- Master zone capable - 1 zone (shaft / staircase) to trigger together with any other zone(s)
- 3 Base Units - up to 5 zone, 10 zone or 15 zone

TYPICAL APPLICATIONS

- Multiple occupancy building with several zones
- Shaft or staircase operating with separate zones
- Large single areas with multiple windows or vents

AOV Smoke Ventilation System

SYSTEM LAYOUT & WIRING

The diagram below shows the typical system architecture for a single zone panel system.

Link 1 & 2

Trigger inputs for AOV panel. Closed circuit loop when broken will cause the panel to trigger vents, windows or domes.

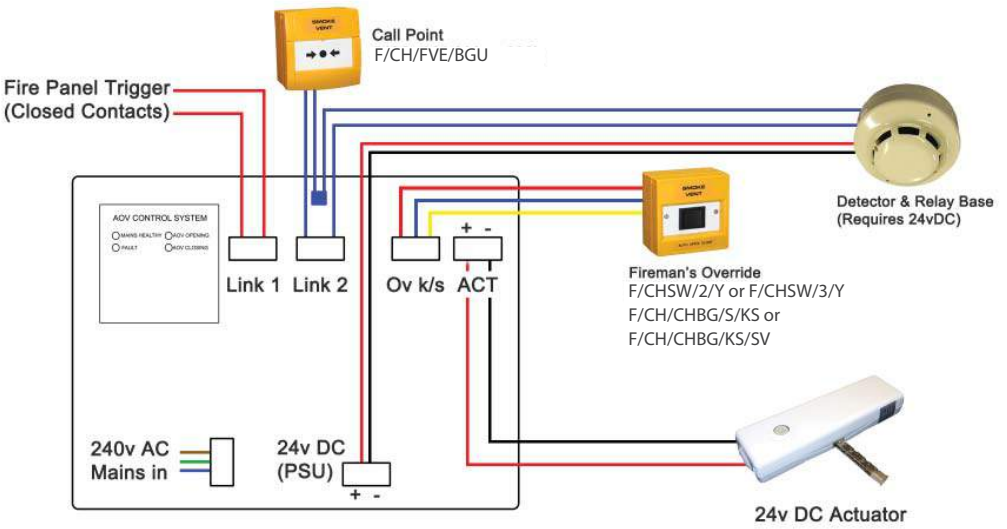
Ov k/s

Trigger input for a Fireman's override call point. This can be either keyswitch or rocker switch.

ACT

24v DC output for actuators, vents or domes.

Opening (forward) = 24v DC +
Closing (reverse) = 24v DC -
Normal state = no voltage



AOV SINGLE ZONE CONTROL PANEL

F/CH/AOV-001	P.O.A	AOV single zone base unit 1 amp 24v
F/CH/AOV-003	P.O.A	AOV single zone base unit 2.5 amp 24v
F/CH/AOV-005	P.O.A	AOV single zone base unit 4 amp 24v
F/CH/AOV-007	P.O.A	AOV single zone base unit 10 amp 24v

AOV MULTI ZONE CONTROL PANEL

F/CH/AOV5/A	P.O.A	AOV multi zone (1-5 zones) base unit 5 amp 24v (Requires 1x F/CH/AOVZ-01 for each zone)
F/CH/AOV10/A	P.O.A	AOV multi zone (1-5 zones) base unit 10 amp 24v (Requires 1x F/CH/AOVZ-01 for each zone)
F/CH/AOV10/B	P.O.A	AOV multi zone (6-10 zones) base unit 10 amp 24v (Requires 1x F/CH/AOVZ-01 for each zone)
F/CH/AOV20/B	P.O.A	AOV multi zone (6-10 zones) base unit 20 amp 24v (Requires 1x F/CH/AOVZ-01 for each zone)
F/CH/AOVZ-01	£49.95	AOV Zone card for multi zone control panels. (1x F/CH/AOVZ-01 is required for each working zone)

(OUTPUT OPTIONS) AOV ACTUATORS

F/CH/ACT-301	P.O.A	24v DC 1.35 amp actuator - 300N - reach 100mm to 400mm adjustable (L-290 x W-83 x H-48mm) Requires bracket for fixing (see below)
F/CH/ACT-501	P.O.A	24v DC 2 amp actuator - 400N - reach 800mm fixed (L-575 x W-80 x H-50mm) Requires bracket for fixing (see below)
F/CH/ACT-502	P.O.A	24v DC 2 amp actuator - 400N - reach 600mm fixed (L-650 x W-80 x H-50mm) Requires bracket for fixing (see below)
F/CH/ACT-503	P.O.A	24v DC 2 amp actuator - 400N - reach 450mm fixed (L-765 x W-80 x H-50mm) Requires bracket for fixing (see below)
F/CH/ACT-701	P.O.A	24v DC 1 amp actuator - 200N - reach 380mm fixed (L-473 x W-51 x H-40mm)
F/CH/ACT-702	P.O.A	24v DC 1 amp actuator - 200N - reach 600mm fixed (L-613 x W-51 x H-40mm)
F/CH/ACT-703	P.O.A	24v DC 1 amp actuator - 200N - reach 800mm fixed (L-713 x W-51 x H-40mm)

BRACKETS FOR AOV ACTUATORS

F/CH/BRK-301	P.O.A	Standard mounting bracket suitable for use with F/CH/ACT-301
F/CH/BRK-303	P.O.A	Small swivel mounting bracket suitable for use with F/CH/ACT-301
F/CH/BRK-304	P.O.A	Large swivel mounting bracket suitable for use with F/CH/ACT-301
F/CH/BRK-502	P.O.A	Standard swivel mounting bracket suitable for use with F/CH/ACT-501, F/CH/ACT-502 or F/CH/ACT-503

(INPUT OPTIONS) AOV CALL POINTS & DETECTORS

F/CH/FVE/BGU	£35.00	Smoke vent yellow break glass unit (no resistor)
F/CHBG/S/KS	£45.00	Smoke vent yellow keyswitch (2 positions) open - closed
F/CHBG/KS/SV	£55.75	Smoke vent yellow keyswitch (3 positions) automatic - open - closed
F/CHSW/2/Y	P.O.A	Smoke vent yellow rocker switch (2 positions) open - closed
F/CHSW/3/Y	P.O.A	Smoke vent yellow rocker switch (3 positions) automatic - open - closed
F/CH/SLR-E3N	£33.50	Smoke vent detector (non latching)
F/CH/YBO-R/6RN	P.O.A	Relay base (non latching)

BATTERIES

B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block) - Suitable for 1-5 amp PSUs
B/12V/12AH/SLA	£42.00	12 Volt 12Ah sealed lead acid battery (1 block) - Suitable for 10 amp PSUs

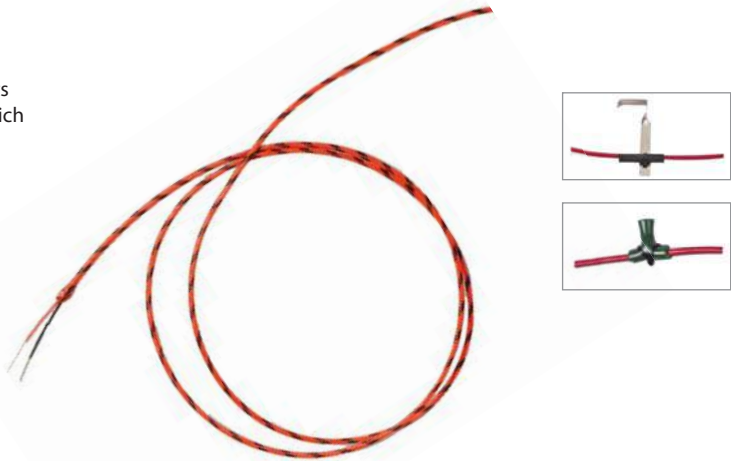
Alarmline Cable

PRODUCT FEATURES

The Alarmline cable is designed to detect at fixed temperature along its entire length. Upon operation, the cable gives a short circuit signal which can be linked very simply to your existing fire alarm system.

Fully monitored by use of an end of line resistor, Alarmline cable offers detection in areas previously unprotected.

- Environmental -65°C to +200°C
- 5 detection temperature ranges from 61°C to 238°C
- Simple interface to any BS5839 system, FM approved
- Fully monitored
- Twin-conductor switching heat sensing cable
- Effective monitoring at precise point of risk
- Economical, reliable and durable detection
- Simple and easy to install
- Applied where other types of fire detection are unsuitable
- Ideal for dirty or harsh environments such as:- Escalator pits, Pipe and cable tunnels/trays, Conveyor belts, Petro chemical, Freezers cold rooms, Within racking.



Right, top to bottom: Pipe clip (F/AL/P CLIP) is made from stainless steel, T clip (F/AL/T CLIP).

PRODUCT CODE	PRICE PER METRE	DESCRIPTION
CABLE		
F/AL/H8040N	£5.75	63°-70°C Alarmline cable (67°C nominal) * Supplied in 100m, 200m, 500m & 1000m lengths only
F/AL/H8045N	£6.75	79°-95°C Alarmline cable (87°C nominal) * Supplied in 100m, 200m, 500m & 1000m lengths only
F/AL/H8028	£7.65	101°-108°C Alarmline cable (105°C nominal) * Supplied in 100m, 200m, 500m & 1000m lengths only
F/AL/H8069	£11.65	177°-189°C Alarmine cable (183°C nominal) * Supplied in 100m, 200m, 500m & 1000m lengths only
F/AL/H9650	£14.35	229°- 251°C Alarmline cable (240°C nominal) * Supplied in 100m, 200m, 500m & 1000m lengths only
ACCESSORIES		
F/AL/P CLIP	£5.50	Pipe clip for use with Alarmline cable
F/AL/T CLIP	£1.25	T clip for use with Alarmline cable

Acoustic Door Holder- Wire Free

PRODUCT FEATURES

- Comes complete with batteries
- Digital, acoustically triggered, battery powered, wireless magnetic door holder
- Mounts behind door avoiding accidental damage - no wiring required
- Battery life indication and low battery warning
- Can be set to automatically release daily at set times
- CE marked under the CPD - Holding force 200N



PRODUCT CODE	PRICE	DESCRIPTION
F/CHDR/AUDIO	£287.50	Acoustic wireless door holder triggered by fire alarm sounder

Interface Relays

PRODUCT OVERVIEW

Our heavy duty relay units are designed for interfacing heavy loads such as door release units or plant shut down equipment with fire alarm systems.

PRODUCT FEATURES

- Simple to install
- Visible status indication
- LED Double pole change over contacts

INTERFACE RELAYS		
F/CH/HDR/5	£46.25	Heavy duty 5A relay
S/E15/A	£15.50	24V 5A Relay



Wall mounted Door Retainers

PRODUCT FEATURES

With a flame retardant, low profile ABS plastic body, Installation is made simple, with knockouts provided for entry of surface mount conduit, there is ample room to connect external wiring to the 4.0mm terminals. Each door retainer is fitted with a spring loaded release pin mounted centrally within the electro-magnet. On power off, the release pin then ensures that the fire door is pushed away from the electro-magnet.

Additional accessories are available, including floor brackets, chains and additional keeper plates

- Flame retardant, low profile ABS plastic body
- All door retainers are designed to comply to the latest requirements of EN 61000-3-2, EN 50081-1, EN 60950 and EN 1155



Right: F/CHDR/24, Left, top to bottom: F/CHDR/BK, F/CHDR/CHAIN

PRODUCT CODE	PRICE	DESCRIPTION
F/CHDR/24	£43.25	24V magnetic door release
F/CHDR/240	£43.25	240V magnetic door release
F/CHDR/BK	£12.00	Door release mounting bracket
F/CHDR/CHAIN	£59.25	1m chain for magnetic door release plates

Electromagnetic Door Closer

PRODUCT FEATURES

The Briton 996 Electromagnetic Door Closer has an integrated electromagnetic hold open; when connected to the building fire alarm or detection system each unit can be set to either hold-open or swing-free operation.

In either case the power of the closer can be temporarily disabled to allow free passage. When de-activated the electromagnet disengages and the door closer closes the door in the normal manner to maintain fire safety.

- Max door weight 60kg - Max door width 950mm
- Site selectable
- Fully certified to EN1155 & EN1634
- CE Marked & Certifire Approved



PRODUCT CODE	PRICE	DESCRIPTION
F/CHDC	£392.25	Briton 996 door closer

Power Supply Units for Door Closers/Releases

PRODUCT FEATURES

- 27V DC nominal output
- Remote control of output
- Choice of switching options: Closing of Normally Open Contact/
- Application of an external 24V dc supply
- LED Indication: Mains Status/Output Fuse Failure
- Mains Transient Protection
- Fail safe operation

TYPICAL APPLICATIONS

- Opening of a normally closed volt-free contact
- Closing of a normally open volt-free contact
- Application of an external 24V DC supply such as a sounder circuit

PRODUCT CODE	PRICE	DESCRIPTION
F/CHDR/PSU/2	£120.25	PSU 24V 2A in enclosure
F/CHDR/PSU/4	£143.00	PSU 24V 4A



Special Function Call Point Units

PRODUCT FEATURES

- Unique 'Plug & Go' installation concept
- Total 'Flex-Ability' in the choice of operating element
- Anti-Tamper facility
- Enhanced aesthetics
- Backward compatibility
- Proven design approved and certified to EN54-11
- Use of glass or resettable plastic element
- Alarm indicator and 240v changeover contacts
- Back box with fixing screws



Left to Right: F/CH/ER,
F/CH/FVE, F/CH/EDR/
FLEX & F/CH/PC

PRODUCT CODE	PRICE	DESCRIPTION
F/CH/PC	£24.75	Surface break glass – blue no resistor
F/CH/EDR/FLEX	£22.75	Surface break glass – green no resistor
F/CH/ER	£20.50	Surface break glass – yellow no resistor
F/CH/FVE	£35.00	Surface vent extract unit – yellow no resistor – 3 POS key switch

Call & Key Point Covers

CALL POINT COVER FEATURES

- Constructed from tough clear polycarbonate
- Easy to install, can retrofit over existing devices
- Includes integral sounder, powered by a 9V PP3 battery (included)
- Protects equipment from accidental operation, vandalism, product misuse, dust and weather
- Flush and surface mounted versions available

KEY POINT COVER FEATURES

- Sturdy ABS plastic key holder secures and provides visible storage of emergency keys
- Supplied with printed glass (perspex) that reads "BREAK GLASS FOR KEY"
- Constructed from robust ABS plastic casing with a crystal styrene window to protect your emergency keys until needed



PRODUCT CODE	PRICE	DESCRIPTION
CALL POINT COVER		
F/CHBGC/KIT	£65.00	Heavy Duty Flush and surface Break Glass Cover Kit
F/CHBGC/KIT/S	£115.00	Heavy Duty Flush and surface Break Glass Cover Kit with Sounder
ACCESSORIES		
S/BG/COVER/1	£8.75	Break glass unit cover for F/CHBG/S/3 (others types available)
F/CHSG	£11.00	10 pack spare
KEY POINT COVER		
F/KEY BOX	£16.50	Break glass key box
F/KEY BOX GLAS	£3.75	Spare glass for key box

Fire Alarm Switched Fused Spur

PRODUCT OVERVIEW

This product provides a secure method for safely isolating the mains voltage supply to fire systems in accordance with BS 5839: Part 1 (2002).

FEATURES

- Both the Live and Neutral supply is switched
- Integral fuse, which cannot be removed without taking the cover off
- The supply can only be isolated by means of a keylock switch
- The key is removable in both ON/OFF positions
- A Green LED is used to indicate mains present at the switched output

PRODUCT CODE	PRICE	DESCRIPTION
F/CHFA/SFS	£48.00	Key operated double pole switched fused spur



Power Supply Units

PRODUCT OVERVIEW

We supply a high efficiency, cost effective range of Switch Mode power supplies featuring Mains and Battery Monitoring. The modular construction enables easy maintenance and upgrade capability. Encapsulated units are class II double insulated.

EN54 COMPLIANT 1.5A PSU FEATURES

- 24V 1.5A EN54-4/A2 Boxed PSU
- VdS certified to EN54-4/A2
- Batteries: 2 x 12V Min.2Ah, Max.3.4Ah
- 380 x 235 x 96mm plastic enclosure



EN54 COMPLIANT 3A PSU FEATURES

- 24V 3A EN54-4/A2 Boxed PSU
- LPCB certified to EN54-4/A2
- Batteries: 2 x 12V Min.7Ah,Max.12Ah
- 404 x 404 x 110mm metal enclosure



PLEASE NOTE

- Power supply units are for use with magnetic locks
- All PSUs require batteries, size is dependant on stand-by times.

NON EN54 COMPLIANT POWER SUPPLY UNITS		
F/PSU/12/1/BM	£74.00	12V 1A power supply unit – battery monitored (Max. 1x B/12V/7AH/SLA)
F/PSU/12/2/BM	£110.75	12V 2A power supply unit – battery monitored (Max. 1x B/12V/7AH/SLA)
F/PSU/12/3/BM	£144.50	12V 3A power supply unit – battery monitored (Max. 1x B/12V/7AH/SLA)
F/PSU/12/5/BM	£259.00	12V 5A power supply unit – battery monitored (Max. 1x B/12V/7AH/SLA)
F/PSU/24/1/BM	£162.50	24V 1A power supply unit – battery monitored (Max. 2x B/12V/7AH/SLA)
F/PSU/24/2/BM	£218.00	24V 2A power supply unit – battery monitored (Max. 2x B/12V/7AH/SLA)
F/PSU/24/3/BM	£372.50	24V 3A power supply unit – battery monitored (Max. 2x B/12V/7AH/SLA)
F/PSU/24/5/BM	£374.75	24V 5A power supply unit – battery monitored (Max. 2x B/12V/7AH/SLA)
EN54 COMPLIANT POWER SUPPLY UNITS		
F/PSU24/1.5/BMEN54	£162.00	EN54 compliant 24V 1.5A power supply unit – battery monitored (Min. 2x B/12V/3.4AH/SLA - 12V 3.4AH)
F/PSU24/3/EN54/1	£215.00	EN54 compliant 24V 3A power supply unit – battery monitored (Min. 2x B/12V/12AH/SLA - 12V 12AH)
BATTERIES		
B/12V/2.1AH/SLA	£12.50	12 Volt 2.1Ah sealed lead acid battery (1 block)
B/12V/2.3AH/SLA	£20.00	12 Volt 2.3Ah sealed lead acid battery (1 block)
B/12V/2.8AH/SLA	£14.50	12 Volt 2.8Ah sealed lead acid battery (1 block)
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)

Remote Indicators

PRODUCT FEATURES

- Used to show operation of hidden smoke detectors
- Supply voltage range – 5-28Vdc
- IP Rating - F/CHRI/60 - IP 42 & F/CHRI/C – IP66
- Current – 24mA
- Weight - F/CHRI/60 – 38g & F/CHRI/C – 117g
- It can be used to link into either addressable, conventional, 2-wire & 4-wire fire detection system arrangements



REMOTE INDICATORS		
F/CHRI/60	£9.25	Remote indicator
F/CHRI/AS	£21.95	AlarmSense remote indicator
F/CHRI/C	£18.50	Circular remote indicator

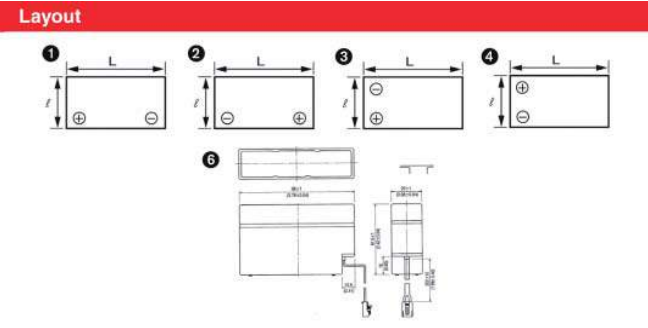
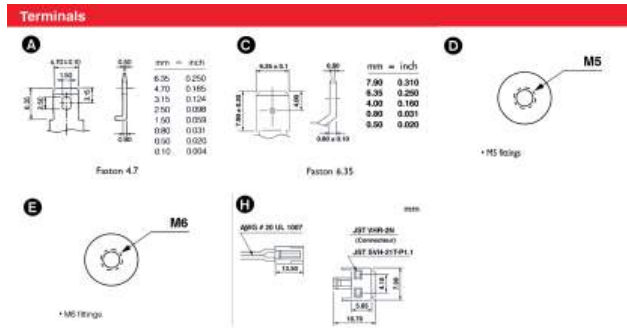
Sealed Lead Acid Batteries

PRODUCT OVERVIEW

- Superb recovery from deep discharge
- Electrolyte suspension system
- Gas recombination / Multipurpose: float or cyclic use
- Superior energy density / Visible status indication
- Lead calcium grids for extended life



Model Name	Nominal Voltage (Volts)	Capacity		Watts per cell 10 min to 1.6VPC at 20° (watts)	Dimensions (mm)			Weight - typical (kg)	Impedance at 1kHz mOhms	1 Second rate (Amps)	Terminal Type	Layout (see page 19)
		20-Hr rate to 10.5V at 20°C (Ah)	10-Hr rate to 10.8V at 20°C (Ah)		Length (±1)	Width (±1)	Height (over terminals) (±2)					
NP0.8-12	12	0.8	0.7		96	25	61.5	0.35	180	24	H	6
NP1.2-12	12	1.2	1.1		97	48	54.5	0.58	110	36	A	3
NP2.1-12	12	2.1	1.9		178	34	64	0.82	65	63	A	1
NP2.3-12	12	2.3	2.1		178	34	64	0.95	65	69	A	1
NP2.8-12	12	2.8	2.5		134	67	64	1.12	60	84	A	3
NP3.2-12	12	3.2	2.9		134	67	64	1.2	50	96	A	3
NP4-12	12	4.0	3.7		90	70	106	1.75	40	120	A/C	1
NP7-12	12	7.0	6.4		151	65	97.5	2.65	23	210	A/C	4
NP12-12	12	12.0	11.1		151	98	97.5	4.05	16	360	C	4
NP17-12I	12	17.0	15.7		181	76	167	6.1	15	510	D	2
NP24-12I	12	24.0	2.3		166	175	125	9	11	720	D	2
NP38-12I	12	38.0	5.3		197	165	170	14.2	9	1140	D	2
NP65-12I	12	65.0	0.5		350	166	174	23	7	1950	E	2



PRODUCT CODE	PRICE	DESCRIPTION
B/12V/0.8AH/SLA	£11.60	12 Volt 0.8Ah sealed lead acid battery (1 block)
B/12V/1.2AH/SLA	£11.50	12 Volt 1.2Ah sealed lead acid battery (1 block)
B/12V/2.1AH/SLA	£12.50	12 Volt 2.1Ah sealed lead acid battery (1 block)
B/12V/2.3AH/SLA	£20.00	12 Volt 2.3Ah sealed lead acid battery (1 block)
B/12V/2.8AH/SLA	£14.50	12 Volt 2.8Ah sealed lead acid battery (1 block)
B/12V/3.2AH/SLA	£21.00	12 Volt 3.2Ah sealed lead acid battery (1 block)
B/12V/4AH/SLA	£21.00	12 Volt 4Ah sealed lead acid battery (1 block)
B/12V/7AH/SLA	£20.00	12 Volt 7Ah sealed lead acid battery (1 block)
B/12V/12AH/SLA	£42.00	12 Volt 12Ah sealed lead acid battery (1 block)
B/12V/17AH/SLA	£55.00	12 Volt 17Ah sealed lead acid battery (1 block)
B/12V/24AH/SLA	£75.00	12 Volt 24Ah sealed lead acid battery (1 block)
B/12V/38AH/SLA	£120.00	12 Volt 38Ah sealed lead acid battery (1 block)
B/12V/65AH/SLA	£199.00	12 Volt 65Ah sealed lead acid battery (1 block)

Fire Extinguishers & Blankets

PRODUCT OVERVIEW

By law and under the Regulatory Reform (Fire Safety) Order 2005 all businesses, including rented properties, have to have a fire risk assessment and provide suitable fire fighting equipment.



CO2 FEATURES

- High quality product
- Supplied complete with wall bracket
- Brass valve assembly
- Coated steel levers
- Polyester external coating
- High Tensile Steel body
- BS EN3 Approved and CE marked
- Approved to the Pressure Equipment Directive



POWDER FEATURES

- High quality product
- Plastic skirt to prevent damage to base
- Complete with wall bracket
- Nickel plated brass valve assembly
- Coated steel levers
- Polyester external coating
- Easy gauge testing (with needle test)
- BS EN3 approved and CE marked
- Approved to the Pressure Equipment Directive



WATER FEATURES

- Kite marked to BS EN3
- High quality product
- Complete with wall bracket
- Nickel plated brass valve assembly
- Coated steel levers
- Polyester external coating
- Easy gauge testing (with needle test)
- Approved to the Pressure Equipment Directive
- Passed the 35kv conductivity discharge test



FOAM FEATURES

- Kitemarked to BS EN3
- High quality product
- Complete with wall bracket
- Nickel plated brass valve assembly
- Coated steel levers
- Polyester external coating
- Easy gauge testing (with needle test)
- Approved to the Pressure Equipment Directive
- Passed the 35kv conductivity discharge test



FIRE BLANKET FEATURES

- 200 gram cloth ensures flexibility and durability
- The suppleness and strength of the blanket ensures user confidence as it is well insulated, yet easily drapes over the fire
- Full traceability through individual blanket batch numbering
- Flush end caps for easy cleaning
- Hinged cap with security seal option avoids blankets being tampered with
- Production is made under quality management system ISO 9001:2000 ensuring strict quality control procedures are met
- All blankets comply with BS EN 1869:1997 and are BSI kite marked



Class A Fires: Solid combustibles, such as wood, paper, textiles	Class D Fires: Flammable metals, such as magnesium swarf
Class B Fires: Flammable liquids, such as petrol, diesel and paraffin	Class F Fires: Cooking fats, such as deep fat fryers oils
Class C Fires: Flammable gases, such as LPG and natural gas	Class E Fires: Fires involving electrical equipment

PRODUCT CODE	PRICE	DESCRIPTION
EXTINGUISHERS		
F/EXT/2KG/CO2	£46.25	2Kg CO2 steel extinguisher
F/EXT/5KG/CO2	£95.50	5Kg CO2 steel extinguisher
F/EXT/6LT/W	£37.50	6 Litre water spray extinguisher
F/EXT/9LT/W	£40.50	9 Litre water spray extinguisher
F/EXT/2KG/DP	£20.25	2Kg ABC powder extinguisher
F/EXT/6KG/DP	£39.00	6Kg ABC powder extinguisher
F/EXT/9KG/DP	£45.75	9Kg ABC powder extinguisher
F/EXT/6LT/F	£39.00	6 Litre AFFF foam extinguisher
F/EXT/9LT/F	£45.75	9 Litre AFFF foam extinguisher
BLANKETS		
F/CHFB/RD1/EN	£14.50	1.0m x 1.1m slim pack - red fire blanket
F/CHFB/RD3/EN	£19.50	1.2m x 1.2m slim pack - red fire blanket
F/CHFB/RD4/EN	£24.75	1.8m x 1.2m slim pack - red fire blanket

Solo Detector Testing

PRODUCT RANGE OVERVIEW

Fire detector test and service equipment must be safe both for engineer and system. As a minimum it must comply with international codes and standards and be approved / endorsed by detector manufacturers and third party listing agencies but it also needs to be cost-effective, portable and versatile.

The Solo range meets and exceeds all of these requirements and more!

SMOKE TESTING

Functional checking is accomplished by introducing a smoke, or simulated smoke, stimulus from the protected area through the vents of a detector to the sensor(s). It is required by all national standards around the world and testing by electronic means that do not involve this test is not sufficient to comply.

HEAT TESTING

Functional checking of heat detectors, with a genuine heat source, is now required by major national standards around the world. Testing with heat sources not designed for the purpose can be both dangerous and damaging. The Solo range of heat detector testing equipment is designed specifically for purpose and provides a professional solution.

CO TESTING

Many multi-sensor fire detectors detect carbon monoxide (CO) as well as smoke and / or heat. Under international codes and standards the CO cell needs to be functionally tested with a CO stimulus from the protected area through the detector vents to the sensor.

Solo CO – used in conjunction with Solo 330 / 332 dispensers - provides a safe way of achieving this with CO concentration levels high enough to activate an alarm, but low enough not to pose danger to user health.

REMOVAL & CLEANING

Detectors need removal and replacement for various reasons. The vast majority are fitted on bayonet mountings and the task can be done using specialist tools fitted to appropriate access poles. Using such specialist devices saves the time, cost, disruption and risk to safety that ladders, scaffolding or access gear represents.

Faced with a vast array of different models shapes and sizes the professional needs a universal tool. Compatible with an astonishingly wide range of detectors, the colour-coded heads of the Solo 200 rotate to provide a combination of sizes and settings for just about every detector.

TELESCOPIC POLES

Solo Telescopic Poles are required for detectors out of normal reach. Their use saves the time, cost, disruption and risk to safety that ladders, scaffolding or access gear represents.

TESTING KITS

The contents of each Testing Kit are determined according to your individual testing needs - see the next page for our Kit Selector and Product Range Selector to help you choose the solution right for you.

AEROSOLS



Left to Right:
F/CH/SOLOA3-001,
F/CH/SOLOA7-001 & F/CH/SOLO/CO

REMOVAL & CLEANING



F/CH/SOLO/200

TESTING KITS



Solo Detector Testing

KIT SELECTOR

* Using Solo A3 Smoke Detector Tester Aerosol
** Using Solo C3 CO Detector Tester Aerosol

PRODUCT CODE	SMOKE TESTING*	HEAT TESTING	CO TESTING**	ACCESS HEIGHT (approx. max.)	330 AEROSOL DISPENSER	461 CORDLESS HEAT TESTER	424 MAINS HEAT TESTER
F/CH/SOLO/808	●		●	4m	●		
F/CH/SOLO/809	●		●	6m	●		
F/CH/SOLO/810	●		●	2.5m	●		
F/CH/SOLO/811	●		●	6m	●		
F/CH/SOLO/812	●		●	6m	●		
F/CH/SOLO/814	●	●	●	8.2m	●		●
F/CH/SOLO/822	●	●	●	6m	●	●	
F/CH/SOLO/823	●	●	●	9.3m	●	●	

PRODUCT CODE	100 ACCESS POLE	101 EXTENSION POLE	108 ACCESS POLE	200 REMOVAL TOOL	610 CARRYING BAG	760 BATTERY BATON	726 BATTERY CHARGER
F/CH/SOLO/808			●				
F/CH/SOLO/809	●						
F/CH/SOLO/810		●					
F/CH/SOLO/811	●			●	●		
F/CH/SOLO/812	●	●(x2)		●	●		
F/CH/SOLO/814	●			●	●		
F/CH/SOLO/822	●			●	●	●	●
F/CH/SOLO/823	●	●(x3)		●	●	●	●

CHANNEL ECONOMY OPTION FOR DETECTOR TESTING		
S/AEROSOL	£13.50	Handheld spray for generic detector testing 150ml
SOLO SMOKE TESTING		
F/CH/SOLO/330	£218.25	Smoke dispenser
F/CH/SOLOA3-001	£26.25	Solo test smoke aerosol 250ml
SOLO HEAT TESTING		
F/CH/SOLO/423	£417.25	Mains heat tester (110V)
F/CH/SOLO/424	£417.25	Mains heat tester (220V)
F/CH/SOLO/461	£785.75	Cordless heat tester kit
F/CH/SOLO/460	£584.00	Cordless heat tester (head unit only)
F/CH/SOLO/760	£109.25	Battery baton
F/CH/SOLO/726	£142.45	Battery charger
SOLO CO TESTING		
F/CH/SOLO/CO	£25.00	Solo CO fire detector tester aerosol
SOLO REMOVAL & CLEANING		
F/CH/SOLO/200	£274.50	Removal tool
F/CH/SOLOA7-001	£29.25	Solo air duster aerosol 250ml
SOLO TELESCOPIC POLES		
F/CH/SOLO/100	£435.00	Telescopic pole (6m reach)
F/CH/SOLO/101	£91.75	Extension pole (1.13m length)
F/CH/SOLO/108	£220.25	Telescopic pole (3.5m reach)
SOLO ACCESSORIES		
F/CH/SOLO/610	£162.25	Carrybag (including pole bag)
SOLO TESTING KITS		
F/CH/SOLO/808	£430.50	Smoke detector test starter pack
F/CH/SOLO/809	£634.75	Smoke detector test starter pack
F/CH/SOLO/810	£309.00	Starter kit for testing smoke detectors
F/CH/SOLO/811	£1,048.75	Smoke kit 6m for testing and removing
F/CH/SOLO/812	£1,147.50	Smoke kit 8.2m for testing and removing
F/CH/SOLO/814	£1,443.50	Smoke/mains heat kit 6m for testing
F/CH/SOLO/822	£1,808.25	Cordless - Smoke / heat kit 6m for testing
F/CH/SOLO/823	£2,067.00	Cordless - Smoke / heat kit 9m for testing

Anti-Vandal Protective Cages

PRODUCT RANGE OVERVIEW

The Protective Cages are designed to protect items from vandalism and misuse. Constructed from plastic coated, heavy duty galvanised steel rod, the cage can cope with the severest of abuse from vandalism or accidental damage. Full fixing kit is provided but where additional security is required, tamper resistant screws are available.

PRODUCT RANGE FEATURES

- Constructed from heavy duty galvanised steel rod
- Plastic coated for durability and external use
- For flush mount applications
- Protects against vandalism or accidental damage
- Designed so there is no interference with the operation of the protected unit
- Supplied with full fixing kit, optional tamper resistant fixings available
- Easy installation and removal for servicing detectors

TYPICAL APPLICATIONS

- Smoke detectors
- Emergency lights
- Security Lighting PIR detectors

SMOKE & HEAT DETECTOR CAGES



F/CHWG/1



F/CHWG/33

PIR & MOTION DETECTOR CAGES



F/CHWG/5



F/CHWG/10

CCTV & SMOKE BEAM DETECTOR CAGES



F/CHWG/13



F/CHWG/14

FIRE & BELL CLOCK CAGES



F/CHWG/15



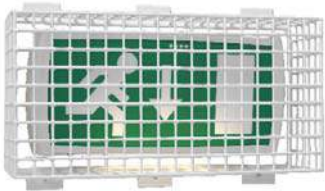
F/CHWG/16

SOUNDER & BEACON CAGES



F/CHWG/18 & F/CHWG/20

EMERGENCY LIGHTING & CCTV CAGES



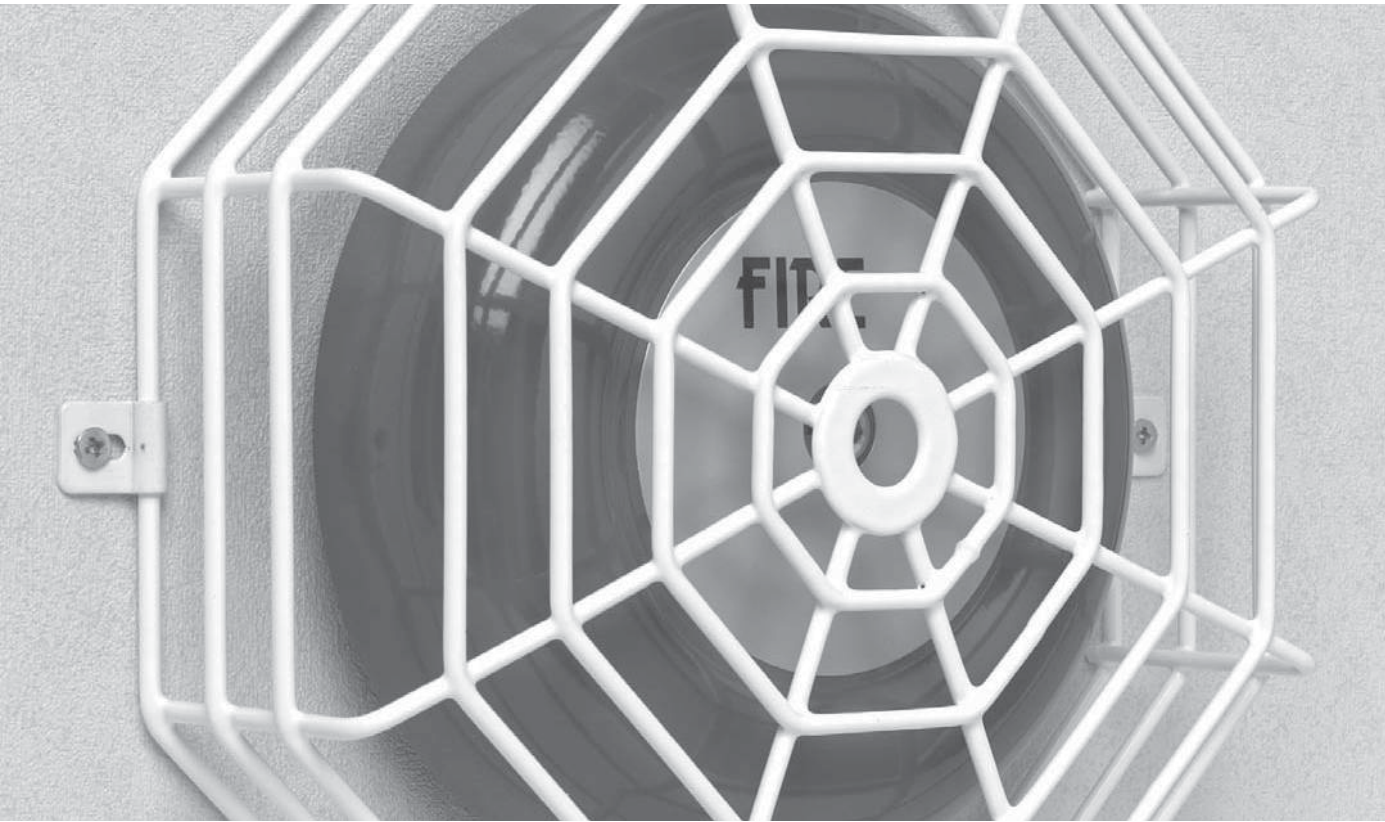
F/CHWG/23



F/CHWG/30

Some of our Best Sellers are highlighted above - yet please feel free to contact a member of the team if you can't find what you need on 0845 884 7000 or email sales@channelsafety.co.uk

Anti-Vandal Protective Cages



SMOKE & HEAT DETECTORS CAGE SIZES		
F/CHWG/1	£34.00	D70mm x DIA 210mm
F/CHWG/2	£31.25	D75mm x DIA 175mm
F/CHWG/3	£58.50	D95mm x DIA 175mm
F/CHWG/4	£31.25	D124mm x DIA 215mm
F/CHWG/33	£34.25	D115mm x DIA 180mm
PIR & MOTION DETECTORS CAGE SIZES		
F/CHWG/5	£35.00	H117mm x W136mm x D76mm Corner
F/CHWG/6	£35.00	H196mm x W136mm x D142mm Corner
F/CHWG/7	£32.00	H156mm x W102mm x D57mm
F/CHWG/8	£31.25	H171mm x W146mm x D108mm
F/CHWG/10	£30.50	H196mm x W145mm x D152mm
F/CHWG/11	£30.00	H225mm x W140mm x D120mm
CCTV & SMOKE BEAM DETECTORS CAGE SIZES		
E/CHWG/12	£72.00	H260mm x W195mm x D325mm
E/CHWG/13	£225.25	H525mm x W450mm x D306mm
E/CHWG/14	£194.00	H404mm x W400mm x D410mm
FIRE BELL & CLOCK CAGE SIZES		
F/CHWG/15	£93.50	D152mm x DIA 270mm
F/CHWG/16	£53.25	D152mm x DIA 420mm
SOUNDER & BEACON CAGE SIZES		
F/CHWG/18	£74.50	D150mm x DIA 200mm
F/CHWG/20	£59.50	D125mm x DIA 150mm
EMERGENCY LIGHTING & CCTV CAGE SIZES		
E/CHWG/23	£85.50	H220mm x W450mm x D128mm
E/CHWG/25	£199.50	H634mm x W634mm x D660mm
E/CHWG/26	£51.00	H270mm x W340mm x D65mm
E/CHWG/27	£92.50	H327mm x W273mm x D100mm
E/CHWG/28	£83.50	H350mm x W550mm x D150mm
E/CHWG/29	£96.50	H160mm x W460mm x D150mm
F/CHWG/30	£104.75	H246mm x W575mm x D256mm
E/CHWG/31	£140.50	H275mm x W778mm x D180mm



Disability and the Equality Act 2010

From 1 October 2010, the Equality Act has combined all previous acts relating to discrimination, into one, more encompassing legal area.

This means that although the Disability Discrimination Act (DDA) has been superseded by the Equality Act, the Disability Equality Duty in the DDA continues to apply.

Equality Act 2010

The Equality Act 2010 aims to protect disabled people and prevent disability discrimination. It provides legal rights for disabled people in the areas of:

- Employment
- Education
- Access to goods, services and facilities including larger private clubs and land based transport services buying and renting land or property
- Functions of public bodies, for example the issuing of licences

The Equality Act also provides rights for people not to be directly discriminated against or harassed because they have an association with a disabled person. This can apply to a carer or parent of a disabled person. In addition, people must not be directly discriminated against or harassed because they are wrongly perceived to be disabled.

The definition of ‘disability’

- Under the Equality Act 2010, a person has a disability if:**
- they have a physical or mental impairment
 - the impairment has a substantial and long-term adverse effect on their ability to perform normal day-to-day activities
- For the purposes of the Act, these words have the following meanings:**
- ‘substantial’ means more than minor or trivial
 - ‘long-term’ means that the effect of the impairment has lasted or is likely to last for at least twelve months (there are special rules covering recurring or fluctuating conditions)
 - ‘normal day-to-day activities’ include everyday things like eating, washing, walking and going shopping

People who have had a disability in the past that meets this definition are also protected by the Act.

Progressive conditions considered a disability - There are additional provisions relating to people with progressive conditions. People with HIV, cancer or multiple sclerosis are protected by the Act from the point of diagnosis. People with some visual impairments are automatically deemed to be disabled.

Conditions that are specifically excluded - Some conditions are specifically excluded from being covered by the disability definition, such as a tendency to set fires or addictions to non-prescribed substances.

System Design Guidance

Always refer to the requirements of the Building Regulations 1991, and the Building Regulations (Amendment) 1998, Part M (Access and facilities for disabled people) so as to practice good building design.

All business must now provide facilities for disabled persons and this legal obligation extends to the fire alarm system.

There are numerous methods of compliance with the Disability Discrimination Act including fixed equipment such as visual alarm indicators, portable equipment such as vibrating pagers and pillows or instructing staff to ensure the safety of disabled persons using the premises.

- Failure to provide fire alarm protection for disabled persons in any business premises is a breach of the law.
- All automatic door opening installations must comply to BS7036.
- On any door opening installation please be aware finger guards may be required either roller blind type or finger guard (plastic).

Penalties for failing to comply

The DDA gives disabled people the right to bring a civil claim against your business where they find you have breached the provisions of the DDA and discriminated against them. If in doubt contact our technical team on 0845 884 7000.

Types of Disability

A typical perception of a disabled person is that they are wheelchair users, however this is a huge misconception. The split of disability in the UK is as follows:-

• Hearing Impairment	51%
• Mobility Problems	22%
• Wheelchair users	3%
• Blind / partially sighted	15%
• Speech impediments	4%
• Other	5%

Who is affected by the Disability & Equality Act

- Does your organisation provide goods or services to the public?
- Do members of the general public visit your premises?
- Does your organisation conduct interviews on your premises?
- Do you carry out training/instruction in your premises?
- Does your organisation have a WEB site?
- Are you a landlord?

Useful Contacts...

Equality Advisory Support Service

Phone: **0808 800 0082**

Textphone: **0808 800 0084**

Website: **www.equalityadvisoryservice.com**

HARK™

PRODUCT FEATURES

The Hark Help and Assistance Response Kit is simple to install and provides peace of mind wherever an indication of ‘assistance required’ is called for. Meeting the BS Standard requirement for all disabled toilets to be fitted with an emergency toilet alarm.

Available in kit solutions finished in white or stainless steel, to fit discreetly into any decor or environment.

The unit benefits from a reassuring audible sound from within the reset unit which confirms that assistance is on the way in addition the unit has braille text.

- Only 3 points to install on a standard system, and can be simply linked and expanded to other systems
- Simple to expand as requirements increase
- Sounder within the reset unit to give audible reassurance that assistance is on the way
- Kits supplied with Twin pull cord rings, Braille text on the reset unit as well as a Disabled Persons sticker
- Multi-way remote indicator units available
- Assists in compliance with the DDA, BS8300 & other care standards
- Suitable for commercial and public buildings as well as specialist areas such as hospitals, restaurants, nursing and retirement homes.

ADDITIONAL OPTIONS

The Help Alarm Response Kit can be linked to a remote multi-way indicator panel (for use in a reception or staffed area).

A 12 volt relay unit can be used to interface the unit to a wide range of equipment such as.

- BMS
- Fire alarms
- Intruder Alarms
- Paging transmitters

Additional pull cord units can be added to the system to allow for larger rooms or multi area coverage. Please note that additional pull cords will operate and be reset by the same unit as the initial pull cord.

ALARM INDICATOR UNITS

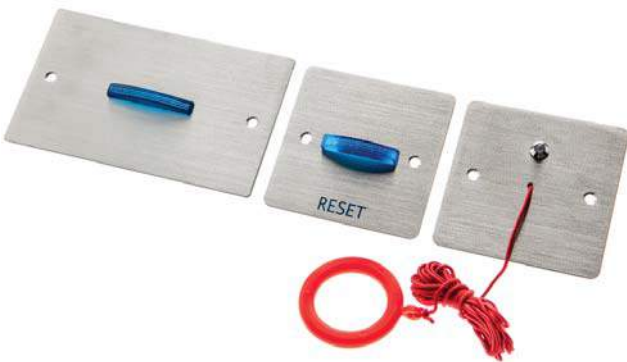
The Indicator Units are simple to install and meet the BS requirement for all disabled toilets to be fitted with an emergency toilet alarm. 75 db at 1metre

Measure to 148mm(W) 90mm(H) 57mm(D)

These units can be purchased as either 1 or up to 11 indicators and come finished in either White Polycarbonate or Stainless Steel. Custom engraving is available.



HARK™ Pull cord units and Push Button Option Available in Stainless steel or white polycarbonate



N/HARK+ Stainless steel kit option complete with battery back up

HARK includes a variety of different accessories to work in compliance for a professional end result.

These accessories combine modern aesthetics and high functionality providing you with the ideal solution for the most demanding installations. HARK assists with compliance with the DDA, BS8300 & other care standards.

PUSH BUTTON

The HARK Push Button can be used instead of a hanging pull cord to notify that the user is in distress.

PULL CORD UNITS

The pull cord unit is supplied with a red plastic ring. An extra ring is supplied to conform to ‘Approved Document M’. The second ring should be fitted lower down near floor level. Activating a call is simply made by pulling the cord. This will activate the re-assurance indicator on the pull cord unit. In turn this will also illuminate the reset unit and trigger the internal sounder. At the same time the Overdoor indicator/ sounder unit will illuminate and trigger it’s own internal sounder.

RESET UNITS

The reset unit has a blue engraved legend ‘RESET’. When a call is activated the reset switch illuminates and the internal sounder activates. The call is reset by simply pressing the reset switch. The reset switch is supplied with Braille legend on the switch piece.

INDICATOR / SOUNDER UNITS

The Overdoor indicator/Sounder unit is supplied with an integral Power supply unit. A fused spur should be fitted nearby and wired to this unit to provide power. The unit will illuminate and sound as soon as a call is activated. The unit will cease once the reset switch is pressed.

HARK™ Indicator / Sounder units



HARK™ Alarm Indicator unit in Stainless Steel finish and Reset unit

HARK™



N/HARK/1 Complete toilet alarm kit, comprising Pull cord, Reset unit, Power supply unit and Indicator finished in white polycarbonate

PRODUCT CODE	PRICE	DESCRIPTION
N/HARK/1	£69.25	Complete kit with pull cord, reset, PSU/Indicator
N/HARK+	£120.50	Stainless steel option complete with battery back up (battery included)
PUSH BUTTON		
N/HARK/1/PB	£61.50	HARK 1 push button
PULL CORDS		
N/HARK/1/PC	£35.50	HARK 1 pull cord
N/HARK+/PC/SS	£29.50	HARK pull cord stainless steel
INDICATOR UNITS		
N/HARK/1/PSU	£40.75	HARK 1 power supply unit
N/HARK+/PSU/SS	£53.75	HARK power supply unit stainless steel
RESET UNITS		
N/HARK/1/RS	£30.25	HARK 1 reset unit
N/HARK+/RS/SS	£47.25	HARK reset unit stainless steel
INDICATOR UNITS, PANELS AND ACCESSORIES (special engraving available P.O.A)		
N/HARK/RI/1	£58.00	HARK 1-way indicator unit
N/HARK/RI/1/SS	£58.00	HARK 1-way indicator unit stainless steel
N/HARK/RI/2	£65.25	HARK 2-way indicator unit
N/HARK/RI/2/SS	£122.50	HARK 2-way indicator unit stainless steel
N/HARK/RI/3	£62.25	HARK 3-way indicator unit
N/HARK/RI/3/SS	£142.50	HARK 3-way indicator unit stainless steel
N/HARK/RI/4	£81.50	HARK 4-way indicator unit
N/HARK/RI/4/SS	£162.50	HARK 4-way indicator unit stainless steel
N/HARK/RI/5	£101.50	HARK 5-way indicator unit
N/HARK/RI/5/SS	£182.50	HARK 5-way indicator unit stainless steel
N/HARK/RI/6	£119.50	HARK 6-way indicator unit
N/HARK/RI/6/SS	£193.50	HARK 6-way indicator unit stainless steel
N/HARK/RI/7	£142.50	HARK 7-way indicator unit
N/HARK/RI/7/SS	£223.25	HARK 7-way indicator unit stainless steel
N/HARK/RI/8	£162.50	HARK 8-way indicator unit
N/HARK/RI/8/SS	£243.00	HARK 8-way indicator unit stainless steel
N/HARK/RI/9	£182.50	HARK 9-way indicator unit
N/HARK/RI/9/SS	£263.75	HARK 9-way indicator unit stainless steel

We can also provide refuge systems to include the HARK Disabled toilet alarm (see pages 124 & 125) - please contact sales for further information

Guide to selecting your Induction Loop System

What is an Audio-Frequency Induction Loop System?

Audio-frequency induction loop systems allow hearing impaired people to hear more clearly. Most hearing aids have a 'T' or 'MT' switch which allows them to pick up the electromagnetic field generated by an induction loop system. The hearing aid converts this signal into a sound suited to its user's specific hearing requirements.

Any person with a hearing aid positioned within or near the loop can hear the loop signal by switching their hearing aid to the correct position, allowing them to participate more effectively in general conversation, order goods or services, listen to public performances, etc.

An induction loop system therefore comprises the following main elements:-

The audio source - typically a microphone, television or radio (or a combination of these).

The Induction Loop Amplifier

The loop - typically a single turn of wire usually run around the perimeter of the room or a special counter loop fixed to the underside of a table.

The receiver(s) - any hearing aid with a 'T' or 'MT' switch or a specially designed loop listening device. In addition to the many routine benefits for hearing aid users, induction loop systems can also be used for other limited area broadcasting applications such as museum 'walk through' guided tours and surveillance talkback systems.

The Main Elements Of An Audio-Frequency Induction Loop System

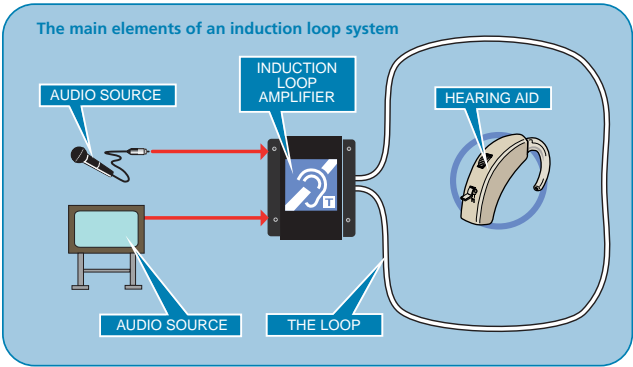
Some induction loop systems may require additional audio sources such as multiple microphone or line level inputs. To facilitate this, many CHIL range amplifiers include an 'Outreach' socket which allows the connection of multiple inputs via a range of specially designed single gang audio connector plates.

How Does An Induction Loop System Work?

Audio-frequency induction loop systems do not use radio frequencies; they operate at audio frequencies. The signal from an audio source is fed into an induction loop amplifier, which amplifies and sets the signal level in the same way as a conventional amplifier.

The amplified signal, instead of going to a loudspeaker, is fed to a closed loop of cable that is normally placed around the perimeter of the room. Employing a constant current amplifier ensures the current is maintained at the set level whilst providing a flat frequency response without the need for equalisation circuitry.

The current flowing through the loop generates a magnetic field that radiates in the space around the loop cable. Any lines of magnetic flux that pass through the telecoil in a receiver, such as a hearing aid, will generate a current in the coil that is then converted back to audio and fed into the listener's ear. It is important to remember that the magnetic field will 'bleed' outside the perimeter of the loop and therefore a loop system cannot be considered confidential.



Why We Have Induction Loop Systems

In normal use, hearing aids utilise a microphone for amplifying localised speech. Whilst this is effective for local conversations/quiet environments, it is less effective for listening to speech or music at a distance or in front of a security screen at a ticket counter. This is because the hearing aid's microphone also picks up any background noise in the room and unwanted speech from other conversations. An induction loop system works by moving the required sound closer to the hearing aid via the hearing aid's telecoil which is activated by turning it to the 'T' or 'MT' position. As telecoils are fitted as standard to most hearing aids (over 90% are said to have the 'T' position) induction loop systems can be considered cost-effective compared to other hearing assistance systems. Infrared systems, for example, require special receivers, the cost and maintenance of which must be met by the service provider. Many modern hearing aids do not just amplify all frequencies equally; they are tailored to suit the user's hearing problem and amplify different bands by different amounts. This gives maximum intelligibility, so the user has the best chance of understanding what is said.

Which induction loop system should I use?

The CHIL range of induction loop equipment is one of the most comprehensive in the UK. It comprises a huge range of amplifiers, microphones, connector plates and test equipment covering virtually every conceivable AFILS application. Before deciding which induction loop system to use, you first need to ascertain the size of the area to be covered in square metres (m²). Bear in mind it may not be necessary to cover the whole of the area, for example in a church only the pews may require coverage.

To calculate the size of the area in square metres, multiply the length by the width. For example, a room 6m x 6m in size would equal 36m². (The coverage provided by an AFILS amplifier is also quoted in square metres).

The chart below, and information in the rest of this section, will help you select the best CHIL Range product(s) for the job.

SIZE OF AREA REQUIRING COVERAGE	CHIL PRODUCT
Counters, desks, tables & other small areas up to 1.2m²	PL1 portable loop kit, ML1/ K counter loop kit, CHIL102C counter loop kit VL1/ B1 vehicle loop kit
Rooms up to 50m²	CHIL102L/R/S small room kits DL50/K domestic loop kit
Rooms up to 200m² (11 x 11m)	AK RANGE loop kits CHIL200E amplifier
Rooms up to 200m² (14 x 14m)	CHIL200/2 professional loop amplifier
Rooms up to 500m² (22 x 22m)	CHIL500/2 professional loop amplifier
Rooms up to 1000m² (30 x 30m)	CHIL1000/2 professional loop amplifier

Designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed, all of the amplifiers in the CHIL range offer excellent intelligibility, true current mode amplification, phantom power (for electret microphones) and full compatibility with the 'outreach plate' audio input extension system (except the PL1, VL1 and DL50).

Many are also available in kit format for ease of specification, purchase and installation.

Portable Induction Loop Kits

PRODUCT FEATURES

Attractively designed in tough ABS plastic, the I/CHIL/PL1 portable induction loop system is a truly portable and extremely durable audio frequency induction loop system, packed full of features and available at a very competitive price. Fully compliant with BS7594 and EN60118-4, it is ideal for use in schools, shops, nursing homes, leisure centres, hotels, banks, GP surgeries, reception desks and many other private, public and civic applications.

- Indicators provided for power on, input level, charging required and charging in progress
- I/CHIL/PL1 kit includes PL1 amplifier, plugtop charger, "induction loop available" sticker and durable cardboard storage/carry case
- I/CHIL/PL3 kit includes PL1 amplifier complete with battery & integral microphone, plugtop charger and 'AFILS available' sticker
- FPROK1 kit includes Fosmeter Pro, 1 x Audio Signal Generator, 2 x protective pouch, 1 x 32 ohm headphones for FPRO, 2 x 9 V battery
- Ideal for restricted person to person contact in areas such as banks, post offices, small meeting rooms, reception desks, open plan offices and ticket booths
- Dimensions: 300mm (H) 250mm (W) 100mm (D)
- Battery Internal 12V VRSLA (Valve Regulated Sealed Lead Acid)
- Weight: 1.7Kg



INDUCTION LOOP KITS		
I/CHIL/PL1	£213.50	Portable induction loop system
I/CHIL/PL3	£235.25	Portable induction loop system complete with carry case
TESTING EQUIPMENT		
I/CH/FPROK/1	£457.50	Fosmeter Pro Induction loop test kit complete with signal generator
SIGNS AND STICKERS		
I/CH/PIL/L	£36.75	Desktop portable induction loop display sign

Counter Top Kits

PRODUCT FEATURES

The ML1/K counter induction loop kit is ideal for use in post offices, banks, building societies, ticket offices and reception areas. Comprising a compact wall-mounting double gang induction loop amplifier, a self-adhesive microphone and pre-formed counter loop, it can generate a loop listening field of 1.5m² approx. making it ideal for counters, desktops and tables.

- Attractively-packaged kit includes:- 1 x I/CHIL/ML1 wall-mounting induction loop amplifier, 1 x I/CHIL/AMT self-adhesive microphone, 1 x I/CHIL/TX2 pre-formed counter loop & 1 x I/CHIL/TEAR 'loop fitted' sticker
- Double-gang wall-mounting I/CHIL/ML1 amplifier fits standard 25mm back boxes and is ideal for mounting under desks, counters or table tops
- Fully compliant with EN60118-4 (formerly BS6083) and BS7594:1993
- Installer-friendly design requires no specialist audio experience or connectors - the ML1 can be fitted by any competent electrician
- Can be used to help building managers and service providers comply with BS8300, the Equality Act and the Care Standards Act
- Dimensions 143mm(H) 83mm(W) 32mm(D)
- Weight 300g (amplifier only)



PRODUCT CODE	PRICE	DESCRIPTION
I/CHIL/ML1/K	£114.00	Counter induction loop kit
I/CHIL/ML1	£99.50	1.5m² wall mounting double gang

Induction Loop Amplifier Kits

PRODUCT FEATURES

A range of current mode induction loop amplifier designed to meet or exceed the requirements of BS7594 and EN60118-4 when correctly installed.

Ideal for the following applications:-

- Meeting rooms
- Lecture theatres
- Shops
- Churches
- Schools
- TV lounges
- Health and fitness club
- Other small to medium sized applications



1.5m² COUNTER INDUCTION LOOP AMPLIFIER KIT

I/CHIL/102C	£262.75	Counter induction loop kit complete with AMT tie/desk microphone and x2 induction loop stickers
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50m² INDUCTION LOOP AMPLIFIER KITS

I/CHIL/102L	£239.25	Small room induction loop kit complete with AMT tie/desk microphone, 30m of loop cable and x2 induction loop stickers
I/CHIL/102R	£277.75	Small room induction loop kit complete with APM omni-directional plated microphone, 30m of loop cable and and x2 induction loop stickers

PDA 200E AMPLIFIER

I/CHIL/200E	£356.00	200m ² Wall mounted loop amplifier
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200m² INDUCTION LOOP AMPLIFIER KITS

I/CHIL/K1	£421.75	Meeting room loop induction kit complete with 1x I/CHIL/200E, 1x I/CH/APM plated microphone and 1x loop fitted sticker
I/CHIL/K2	£563.50	Lecture room loop induction kit: complete with 1x I/CHIL/200E, 1x I/CH/AMT tie/desk microphone, 1x I/CH/AML lectern microphone, 2x I/CH/APJ outreach plates and 1x loop fitted sticker
I/CHIL/K3	£566.25	TV & music room loop induction kit complete with 1x I/CHIL/200E, 1x I/CH/AMH handheld microphone, 1x I/CH/APS scart lead, 1x I/CH/APJ outreach plate, 1x I/CH/APL outreach plate, 1x loop fitted sticker

TESTING EQUIPMENT

I/CH/FPROK/1	£457.50	Fosmeter Pro Induction loop test kit complete with signal generator
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Professional Induction Loop Amplifiers

PRODUCT FEATURES

Induction loop amplifiers are ideal for use in large prestigious applications such as theatres, churches, cinemas, conference halls; where first class sound and reliability are a must.

- Dimensions 80mm(H) 380mm(W) 220mm(D)
- Weight I/CHIL/200/2 – 3.74Kg, I/CHIL/500/2 – 3.46Kg; I/CHIL/1000/2 – 4.54Kg



PRODUCT CODE	PRICE	DESCRIPTION
I/CHIL/200/2	£539.00	200m ² professional free-standing induction loop amplifier
I/CHIL/500/2	£732.50	500m ² professional free-standing induction loop amplifier
I/CHIL/RM	£53.75	19 rack-mount kit for pro-range amp
I/CHIL/WM	£43.25	Wall-mount kit for pro-range amp
TESTING EQUIPMENT		
I/CH/FPROK/1	£457.50	Fosmeter Pro Induction loop test kit complete with signal generator

Outreach Plates

PRODUCT FEATURES

Any PDA range amplifier marked with the 'Outreach Compatible' symbol is compatible with our unique Outreach Plate audio input extension system. This system allows the connection of multiple microphone or line level inputs via a range of single gang connector plates. Carefully designed to cover the most common variants of audio connector (including XLR line, XLR mic., 3.5mm jack, dual phono and 1/4" jack), a maximum of 10 outreach plates (any mix) can be daisy chained to an amplifier's Outreach socket using standard two pair audio cable such as Belden 8723 (or equivalent).

Please note: Our I/CHIL/PL1 and I/CHIL/DOM amplifiers do not have outreach sockets and that our I/CHIL/MK1 amplifier can have a maximum of three outreach plates connected to it.



PRODUCT CODE	PRICE	DESCRIPTION
I/CH/APJ	£68.75	3.5mm mono jack plate for connection of CH/AMT, CH/AMH, CH/AML or CH/AMD microphones
I/CH/APL	£68.75	Dual phono line level audio plate for connection of CH/APS SCART lead or other line level audio feeds
I/CH/APQM	£68.75	6.35mm stereo jack plate for connection of CH/AMR/L or H radio mic.
I/CH/APQL	£68.75	6.35mm stereo jack plate for the connection of line level feeds from mixing desks, etc.
I/CH/APXM	£68.75	XLR mic level plate for connection of CH/AMP microphone
I/CH/APXL	£68.75	XLR line level plate for connection of mixing desk line level feeds
I/CH/APM	£68.75	Omni - directional plated microphone for wall/ceiling/desk mounting
I/CH/BELDEN/25	£95.00	25m of Belden 8723 audio cable

Microphones

PRODUCT FEATURES

These microphones have the highest tolerance of magnetic feedback and are therefore recommended for induction loop systems. Dynamic microphones should not be used as they contain moving coil magnets which can be affected by the magnetic field generated by the loop.

Phantom power is provided on all Induction Loop amplifiers, so the microphones with internal batteries are not necessary.

Please note: All microphones are supplied with a connection lead apart from the I/CH/AMP. If using an AMP, a range of connection leads are available.

To avoid interference, microphone cables should be sited at least one metre away from loop cable.



PRODUCT CODE	PRICE	DESCRIPTION
I/CH/AMP	£394.00	Professional handheld microphone for CHIL/200E or CH/APXM plate (requires CH/AXLR lead)
I/CH/AMH	£69.75	Handheld microphone for CHIL/ML1, CHIL/DOM, CHIL/102, CHIL/200E, CHIL/PL1 or CH/APJ outreach plate
I/CH/AMR	£474.50	Levalier radio microphone complete with microphone, receiver, transmitter, PSU. Connects to CHIL/200E or CH/APQM outreach plate
I/CH/APM	£68.75	Omni directional plated microphone for wall/ceiling mounting, connects to CHIL/ML1, CHIL/102, CHIL/200E
I/CH/AMD	£97.50	Desktop microphone for CHIL/ML1, CHIL/DOM, CHIL/102, CHIL/200E, CHIL/PL1 or CH/APJ outreach plate
I/CH/AML	£69.75	Lectern microphone for CHIL/ML1, CHIL/DOM, CHIL/102, CHIL/200E, CHIL/PL1 or CH/APJ outreach plate
I/CH/AMR/H	£474.50	Handheld radio microphone c/w mic, receiver, transmitter, psu. Connects to CHIL/200E or CH/APQM outreach plate
I/CH/AMT	£10.25	Tie/desk microphone for CHIL/ML1, CHIL/DOM, CHIL/102, CHIL/200E, CHIL/PL1 or CH/APJ outreach plate

Medicare Wireless Nurse Call

PRODUCT OVERVIEW

Radio Nurse Call systems are now commonplace in nursing homes, residential homes and many hospitals. Due to their ease of installation, systems can be used in many locations within the care environment, from bedrooms, bathrooms, common areas, dining rooms, to waiting areas, toilets and meeting rooms.

Panels are colour-coded to meet HTM guidelines for standard calls (orange), assistance calls (yellow), emergency calls (red), staff presence (green) and call accept (grey). Standard calls, assistance and emergency calls each have their own specific tone.

Optional indicator lights provide staff with a simple and safe method of correctly identifying the location of any call.

Call points employ HTM colouring as standard. Raised buttons assist residents with poor eyesight. Luminescent labels for both the call point and pear-push lead (handset) are embedded with Microban® protecting against bacteria.

Bedroom units include two sockets, one for the pear-push lead and a second for auxiliary items. Call points are mounted on wall brackets and can be moved if required for safe, easy operation, or second using a locking clip.

Medicare's HTM Wireless Nurse Call System is used nationwide in:

- Nursing Homes
- Residential Homes
- Warden Controlled Complexes
- Care Villages
- Hospices
- Private Hospitals
- NHS Hospital s



The Medicare system at a glance:

- Easy Configuration, intuitive operation
- All features available- can be activated at any time
- Additional monitoring for many common conditions
- Elegant design, robust build quality
- Low power wireless technology
- Easily configured to your requirements
- Versatile, flexible and easy to install
- Plug and play technology
- HTM regulations compliant
- Low maintenance
- Cost effective
- Comprehensive training



DISPLAY SCREENS		
N/CH/HTM4000A	P.O.A	HTM 7" TFT Display screen with full function software
N/CH/HTM4100	P.O.A	HTM 14" TFT Display screen with full function software
PENDANTS & DOOR CONTACTS		
N/CH/HTM4002	P.O.A	HTM Neck/Belt pendant
N/CH/HTM4004	P.O.A	HTM Door contact transmitters with key switch
CALL POINTS		
N/CH/HTM6000	P.O.A	HTM Call point
N/CH/HTM6001	P.O.A	HTM Call point with pear push lead
N/CH/HTM6003	P.O.A	HTM Call point with pull cord
PAGING		
N/CH/MED 5	P.O.A	Paging transmitter
N/CH/MED 6	P.O.A	Holstered alpha-numeric pager
CALL LOGGING		
N/CH/MEC 4	P.O.A	USB to serial interface with driver for use with call logging software
ACCESSORIES		
N/CH/HTM4031	P.O.A	HTM RTX (signal booster)
N/CH/MED 8	P.O.A	HTM Pressure mat heavy duty
N/CH/HTM4022	P.O.A	HTM Over-door light (requires 1 power 5Amp supply for up to 40 lights)

Medicare Wireless Nurse Call

The Medicare Radio Nurse Call System

Display Panels

Using the very latest in technology Medicare Systems' display panels offer multiple options to suit all environments. Medicare panels are available in a variety of sizes and can be easily programmed to show just a room number or more detailed individual information specific to your needs. Medicare's display screens can be wall or desk mounted and provide the ability to view multiple calls on the same screen.

Display Panel Options include:

- Available in a variety of sizes
- Configurable to your needs
- Call acceptance
- Latest touch-screen technology
- Variety of call tones

Call Logging

Medicare's call logging system is simple to use, yet provides all the information you need, enabling you to monitor, record and print reports on all calls and responses. You can print out details of the activity or export to programmes such as excel.

Call Points

Compare Medicare Systems' call points to any other and the quality is immediately apparent. Our call points are housed in unique, elegant enclosures made in the UK and built to withstand the demands if the care environment.



How the system works

Room Units

Medicare room units are functional, elegant and robust.

Pear Push Lead

The sealed and extendable lead is both ergonomic and practical and comes in a single-button version for patient calls, and a two-button version which operates the resident's bedside light.

Door Contact Units

This neat slimline unit provides door security for internal and external doors.

Indicator Lights

These can be configured for over-bed, over-door or follow me indication. They require a 12V feed with wireless connection to call point.

Emergency Unit

For high dependency situations where an emergency response is vital we supply a specific single blue button unit conforming to HTM Specifications.

Paging System

Pocket pagers display call information enabling a silent type system.

Benefits of installing wireless systems...

There are many advantages of wireless nurse call systems as opposed to the conventional wired system, including;

Lower cost and minimal disruption - Wireless nurse call systems are a highly cost-effective solution for monitoring the wellbeing of patient's and ensures that their requirements are met as fast as possible to help avoid any unnecessary suffering or discomfort. This type of technology allows nurses to monitor different zones within a hospital environment and this can help reduce costs in terms of staffing.

Versatility - This form of technology is highly versatile and can be adaptable to most situations within a hospital or care home facility. Nurse call systems will act as the sort of early warning system that is necessary to improve patient safety records and ensure that patients are treated as quickly as possible.

Approved - HTM wireless nurse call system meets the requirements of the R&TT Directive and relevant sub directives such as EMC, low voltage and safety directive and carries the CE mark.

No interferences with other equipment - This nurse call system has been safely installed in many hospitals hence it will not interfere with pacemakers as it has been subjected to the emissions tests as required and is safe to use. It will not interfere with any computers or network systems.

Range enhancement - In free air the signal will travel up to 1km. By using signal boosting equipment we can provide full coverage for any size care facility, even care villages and large hospitals.

Connectivity - Our wireless nurse call systems can be connected to an alarm in the nurse's station, a personal computer with specialist software or to a mobile paging device, so when the patient or resident needs assistance, staff will be alerted to it wherever they are.

Temporary fitting - Whilst renovations are being undertaken a radio system can be installed in temporary premises. The system can then simply be boxed up and stored away for use at any time as a back up for any faulty existing systems.

Quantec- Addressable Call System

PRODUCT OVERVIEW

Quantec is a powerful yet easy to use addressable call system that helps ensure vital communication throughout a building.

The way the system operates can be tailored to suit a care facility's specific requirements with different day, night and call divert arrangements easily accommodated to meet the exact operational needs and precise layout of any building.

This flexibility, coupled with many advanced features such as multiple call levels and full monitoring of all network devices, makes Quantec the obvious choice for larger nursing homes.

PRODUCT FEATURES

- Multiple call levels including standard, en suite, help required, emergency, attack, presence & attendance
- Tailored to suit a site's exact operational requirements
- Call accept feature & Automatic call divert
- Illuminates overdoor lights and corridor lights
- Staff attendance allows staff entering rooms to log their 'attendance' via an infrared call point or ceiling receiver
- Call follower sounders (optional)
- Night mode allows Quantec to work in a totally different way at night, providing for fewer staff and reduced sound levels
- Infrared staff protection helps protect staff against disturbed patients, intruders and aggressive visitors
- 'Surveyor' data analysis software allows the outputting of custom reports
- Optional paging facilities (DECT telephone capability also available)
- Laptop programmable system controller
- Minimising disturbance, with no expensive rewiring
- Easy to install & expand
- Low maintenance time and costs
- New for 2016- a cost-effective expansion kit that adds true BS8300 compliant accessible toilet alarm functionality to a Quantec Addressable Call System (order code N/QT951)

1000s of sites are currently benefitting from the Quantec Addressable Call System...



Prospect View
(Health Centre)
Worcestershire



Todmorden House
(Health Centre)
Yorkshire



St Kentigerns
(Hospice)
North Wales

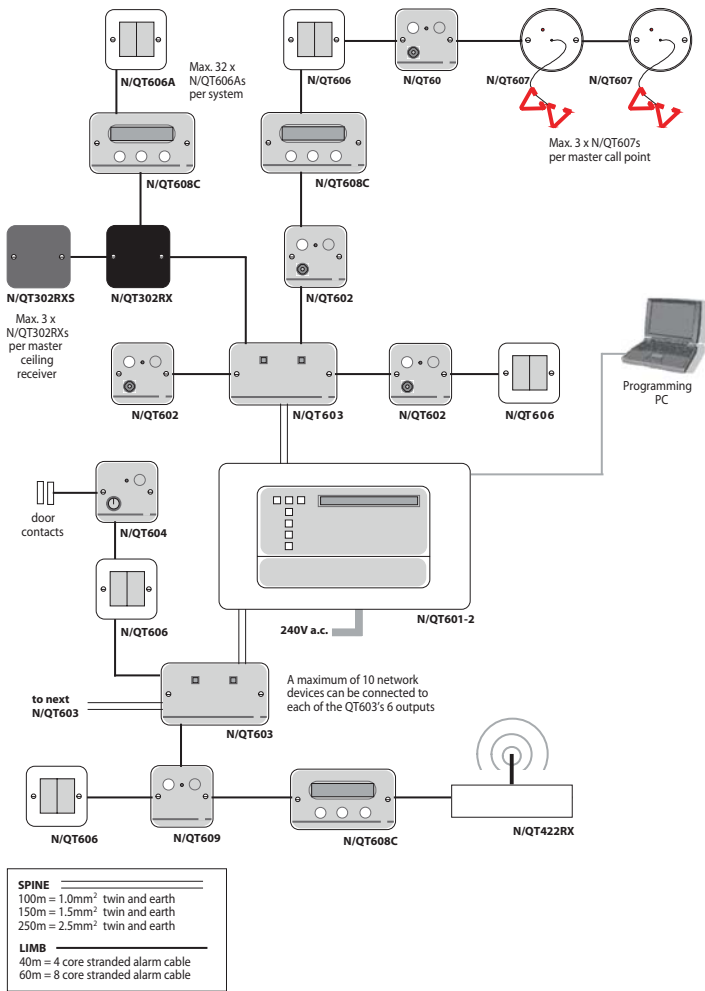


Abraham Guest
(Secondary School)
Greater Manchester



Images show from left to right Quantec call point with reset button and Quantec display unit with controls

QUANTEC - TYPICAL SYSTEM ARCHITECTURE



Quantec- Addressable Call System



PANELS		
N/QT601-2	£529.25	Quantec addressable nurse call panel (requires x2 B/12V/7AH/SLA batteries)
N/CH385	£52.00	Flush bezel for Quantec QT601-2
B/12V/7AH/SLA	£23.25	12 Volt 7Ah sealed lead acid battery (1 block)
DISPLAY UNITS		
N/QT608C	£232.75	Quantec display unit with controls
N/QT608CD	£232.75	Quantec display unit with no controls
CALL POINTS		
N/QT602	£57.50	Quantec call point with reset button (remote socket)
N/QT602S	£65.25	Quantec call point with reset button and sounder (remote socket)
N/QT602R	£73.00	Quantec call point with reset button and I/R receiver (remote socket)
N/QT602M	£67.75	Quantec magnetic reset/call unit (remote socket)
N/QT609	£56.50	Quantec call point with reset button (no remote socket)
N/QT609S	£64.25	Quantec call point with reset button and sounder (no remote socket)
N/QT609R	£72.50	Quantec call point with reset button and I/R receiver (no remote socket)
N/CH/951		Quantec accessible toilet alarm expansion kit
DOOR MONITORING STATIONS		
N/QT604	£58.00	Quantec door monitoring station with reset button
OVER DOOR LIGHTS		
N/QT606	£29.25	Quantec slave overdoor light
N/QT606A	£66.00	Quantec addressable overdoor light
ADDRESSABLE SOUNDERS		
N/QT688	£76.00	Quantec addressable sounder
PULL CORD		
N/QT607	£25.25	Quantec ceiling pull cord unit
TAIL LEAD		
N/CH/805C/6	£17.50	6ft (1.8m) tail call lead
N/CH/805/14	£19.50	14ft (4.2m) tail call lead
MAGNETIC RESET KEY		
N/CH/803M	£5.25	Magnetic reset key complete with keyring
DUAL ACTION TRANSMITTER		
N/QT412RXA	£125.25	Dual action infra-red/radio transmitter (push for attack/pull for attack)
N/QT423	£214.75	Configurator for N/QT412RXA
N/QT611	£144.50	Universal interface (call unit)
INFRA-RED CEILING RECEIVERS		
N/QT302RX	£93.75	Quantec master infra-red ceiling receiver
PORTABLE RECEIVER		
N/QT1001/S	£274.25	Quantec portable receiver (pocket data pager)

Quantec - Dementia Care

PRODUCT OVERVIEW

Designed in conjunction with an NHS Trust widely regarded as the leading light in the provision of high-intensity dementia care, Quantec Dementia Care products allow care providers to enhance the level of care they provide for patients suffering from Dementia, Alzheimers, Incontinence and other degenerative illnesses.

The system is engineer programmable to suit the exact requirements of an individual patient/bedroom and includes all of the inputs, outputs, timers and power needed for the connection of PIR movement sensors, enuresis sensors, bed exit mats, low voltage LED lighting, door monitoring contacts, slave infrared ceiling receivers, slave controllers, overdoor lights, room status controllers and more. The controller comes with a number of pre-set DIP-switch selectable configurations, all geared towards giving patients the freedom and dignity they need to live their lives as normally as possible with as little intervention from carers as their condition will allow.

PRODUCT FEATURES

- Can be configured to automatically switch lights on and off when movement is detected to safely guide patients to and from ensuite areas
- Provides clear and concise indication of room status data at ALL relevant Quantec displays (e.g. Bedroom 1, Bed Exit)
- All room/patient call activity is logged at the main Quantec Controller for optional output to our Quantec Surveyor data management software
- Comes with 10 pre-set patient monitoring configurations including high-intensity, medium-intensity and ensuite ushering
- Can be easily adapted to the changing needs and ongoing behaviour patterns of Dementia and Alzheimers sufferers
- Many of the components shown can be easily added to existing Quantec systems
- All network devices are designed and manufactured in the UK

PANEL

N/QT630	£334.75	Quantec dementia care controller complete with PSU (requires 1x B/12V/7AH/SLA battery)
B/12V/7AH/SLA	£23.25	12 Volt 7Ah sealed lead acid battery (1 block)

DISPLAY UNITS

N/QT608C	£232.75	Quantec display unit with controls
N/QT608CD	£232.75	Quantec display unit with no controls

INTERFACE UNITS AND PIR ACCESSORIES

N/QT636	£47.00	Quantec interface unit
N/QT638	£34.00	Quantec PIR movement sensor requires a QT645 PIR power interface if connecting via a QT604/QT604M/QT611

OVER DOOR LIGHTS, IR RECEIVER & LED LAMP

N/QT606	£29.25	Quantec slave overdoor light
N/QT606A	£66.00	Quantec addressable overdoor light
N/QT302RXRS	£127.00	Quantec slave IR ceiling receiver

MATS

N/QT633	£37.50	Bed exit mat (connects to a QT636/637 interface unit)
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DUAL ACTION TRANSMITTER

N/QT412RXA	£125.25	Dual action infra-red/radio transmitter (push for attack/pull for attack)
N/QT423	£214.75	Configurator for N/QT412RXA
N/QT611	£144.50	Universal interface (call unit)



Image shows dementia care product family

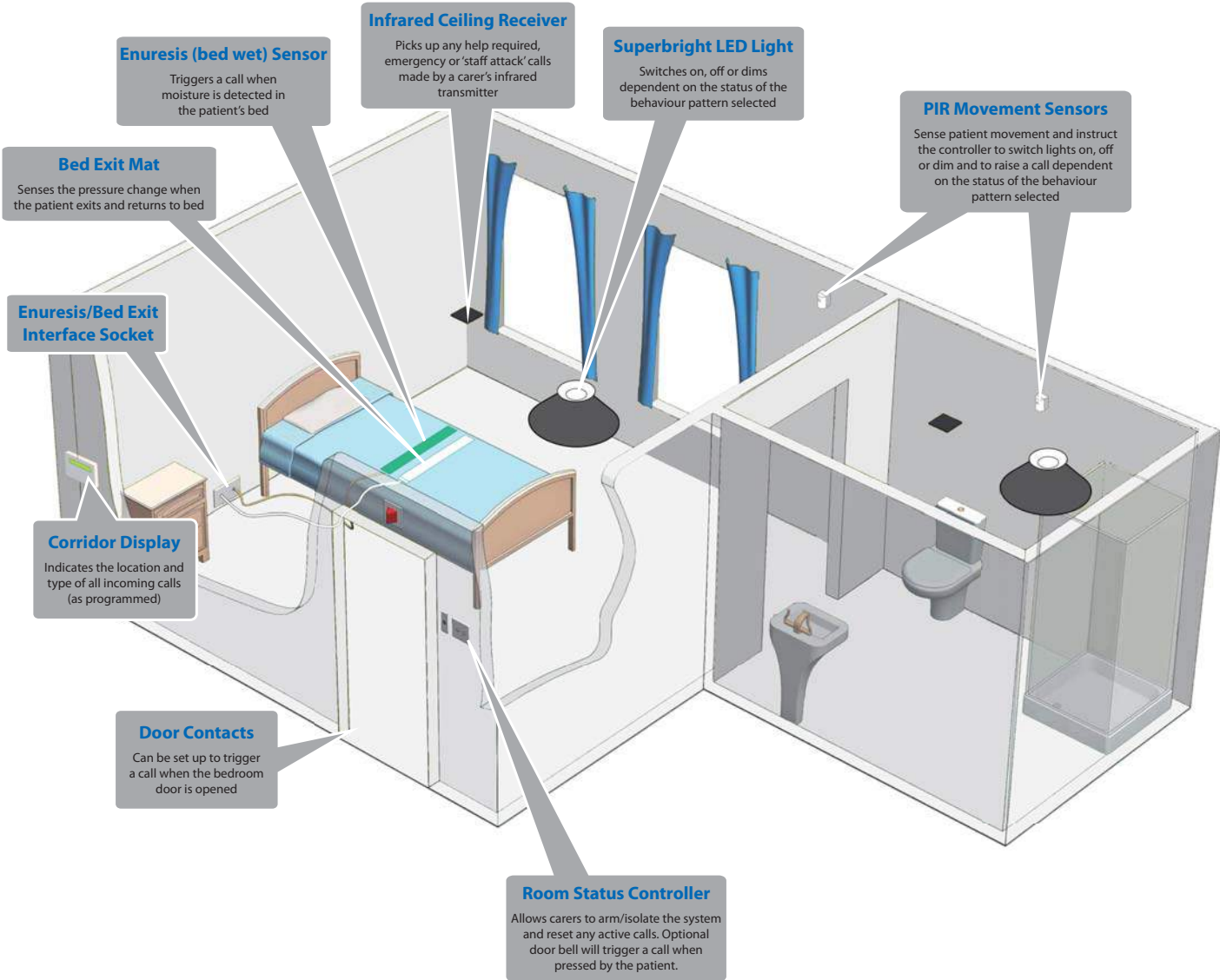
SPECIFICATIONS

Mains supply	230V A.C 50/60Hz. Max. current 350mA
Internal Power Supply	27V DC (nominal)
Max. switching current	25mA
Max. switching voltage	30Vd.c
Main Fuse	1 x 1 A HRC ceramic (20x5mm)
Battery	1 x 12V 7Ah battery
Battery Fuse	1 x 3.15 A F (20x5mm) this limits the current drawn from the battery
Weight	3.5kg (not including battery)

Quantec - Dementia Care

TYPICAL SYSTEM ARCHITECTURE

A Medium Intensity Patient Monitoring System with Ensuite Ushering.



BENEFITS OF USING QUANTEC DEMENTIA CARE

- Allows Nursing homes to offer specialist Dementia care with little additional cost
- Allows Nursing homes to meet the requirements of local authority dementia care provision targets
- Gives confidence to residents, relatives and staff of a safe, caring approach.
- Allows residents to have a greater degree of autonomy without the need for staff assistance

If you would like to know more about the Quantec Dementia Care system please contact our sales team on 0845 884 7000

Channel Call System

PRODUCT OVERVIEW

Incorporating a wide range of indicator panels and an extensive array of system components (including ceiling pulls, wall-mounting call points, monitoring points, water resistant alert points, overdoor lights, remote sounders, relays and call latch modules), Channel Call System is without doubt one of the most versatile and reliable conventional call systems on the market.

Channel Call System is a wired system where individual devices are connected to the main control panel which when activated, will indicate the exact location of an “event”.

Within the Channel Call System, we offer a 10 and 20 zone call controllers, which are compatible with all Channel Call System call points, ceiling pulls, infrared ceiling receivers, monitoring points, overdoor lights and remote sounders.

Depending on how the controller is configured and the devices connected to it, both standard and emergency calls can be indicated via its buzzer and zonal LEDs. Two buttons (A and B) are also provided to allow the user to reset, mute or accept standard calls.

Flush or surface call controllers are available.

The N/CC800 control panels are available to cover 10-90 zones. Please contact us for bespoke systems.

PRODUCT FEATURES

- Hard wired for total reliability – 4 to 6 core security cable is ideal for most installations
- Wide range of indicator panels covering 1 to 90 zones
- Extensive range of ancillaries including ceiling pulls, wall-mounting call points, monitoring points, water resistant alert points, overdoor lights, remote sounders, relays and call latch modules
- Simple to install, easy to operate and highly reliable
- All power supplies capable of 12V sealed lead acid battery charging
- Two levels of call – standard (constant tone) and emergency (intermittent tone)
- Can be used to help building managers and service providers comply with BS8300, the Equality Act and the Care Standards Act

APPLICATIONS

- Nursecall
- Dementia Care
- Staff Protection
- Emergency Assistance
- Cell Call
- Affray Locations
- Care Homes
- Hospitals
- GP Surgeries
- Hotels
- Leisure Centres
- Shops
- Offices
- Factories

How does it work?

Depending on the type of calling devices used, the system can be set up to operate as a standard system – on which standard (constant tone) calls are generated – or an emergency system – on which standard (constant tone) and emergency (intermittent tone) calls are generated.



Planning a system

The following points should be considered when designing or planning a call system.

- Indicator panels
- Call Points
- Ancillary calling devices
- Call latch modules
- Overdoor lights
- Remote sounders
- Relay units
- Master reset buttons
- Mute buttons

Need some assistance?

We understand that planning an installation of a nurse call system can be difficult and the rules vary, so please check with the relevant bodies before planning.

UK Rest Homes - Social Services will usually approve the installation and the standard system is normally ideal. Their main requirement is for the rest point to be within sight of the caller to ensure the call is attended to properly.

UK Nursing Homes - The local health authority will usually approve the installation and the standard system may be satisfactory but some authorities will want the emergency facility. Also, some authorities only allow button operated emergency call/reset points and others require the magnetic key type.



Images to the right (left to right) show a 10-20 zone call controller and a 30 zone panel

Channel Call System



PANELS		
N/CC/810K	£293.50	10-way call panel – (Requires 1x B/12V/2.3AH/SLA - listed below)
N/CC/811K	£244.00	10-way call repeater panel
N/CH/812KE	£325.00	10-way nurse call panel + battery with emergency level
N/CC/820K	£412.50	20-way call panel – (Requires 1x B/12V/2.3AH/SLA - listed below)
N/CC/830K	£538.50	30-way call panel – (Requires 1x B/12V/2.3AH/SLA - listed below)
N/CC/9205	£395.00	20 Zone call panel - C/W PSU (optional battery back-up PSU available)
N/CC/925B1	£140.00	Power supply with battery back-up-
B/12V/2.3AH/SLA	£12.75	12 Volt 2.3Ah sealed lead acid battery (1 block)
CALL POINTS		
N/CH/802DB	£33.50	Standard call point with button reset & remote socket
N/CH/802DM	£33.50	Standard call point (magnetic reset)
N/CH/802DEM	£48.25	Emergency & standard call / reset point (magnetic reset)
N/CH/804DE	£44.25	Emergency call / reset point (button reset)
WATER RESISTANT CALL POINTS		
N/CH/802DEWM	£137.00	Master water resistant alert point (magnetic reset)
N/CH/802DEWS	£129.75	Slave water resistant alert point
PULL CORD		
N/CH/807C	£25.75	Quantec ceiling pull cord unit
REMOTE SOUNDER		
N/CH/888D	£15.50	Remote sounder
OVER DOOR LIGHTS		
N/CH/806C	£25.75	Overdoor light
N/CH/806CS	£46.25	Overdoor light & sounder
MONITORING POINTS		
N/CH/894DKB	£47.25	Button reset door monitoring point
N/CH/894DKM	£47.25	Magnetic reset door monitoring point
RESET UNITS		
N/CH/809DB	£15.50	Button reset point
TAIL LEAD		
N/CH/805C/6	£17.50	6ft (1.8m) tail call lead
N/CH/805/14	£19.50	14ft (4.2m) tail call lead
MAGNETIC RESET KEYS		
N/CH/803M	£5.25	Magnetic reset key complete with keyring

Channel Orbital Range- Refuge Alarm System

PRODUCT OVERVIEW

A refuge system provides a means of calling for assistance in the event of an emergency. A designated “safe area” isolates exiting occupants from the effects of smoke and heat during a fire or emergency situation. The communication system allows the person in need to inform security of their location in the building and provides an area that are relatively safe places where people who cannot easily use fire escapes.

Most risk assessments show the need for a Refuge System, giving reassurance that the building management know of the occupants whereabouts during an emergency.

The primary function of the Refuge Communication System is to provide a voice link between two points in a building.

When a call is generated at the refuge area, the central control panel will sound and display the location of the incoming call.

Lifting the handset and pressing the appropriate zone button at the central station will open the speech channel (loudspeaker) allowing a ‘full duplex’ conversation to take place. The disabled refuge outstation can be used to call for assistance and reassure the person until help arrives.

Safety Regulations and the Disability Discrimination Act

Part M of the UK government’s building regulations insists that all new non-domestic buildings with more than one-storey must provide refuge areas for public safety purposes.

The Disability Discrimination Act (DDA) consists of several pieces of civil law that enable disabled people who feel they have been discriminated against to take action for damages against organisations or individuals should these considerations not be implemented to support their personal safety in the event of an emergency.

All of Channel’s disabled refuge systems are BS9999 & BS5839 Pt9. 2010 compliant, and we offer our consultants assistance for BS5839, BS9999, as well as providing relevant specification templates.

Simple and Effective

- Simple and effective ‘full duplex’

two-way communication in these areas is essential, firstly to assist rescue teams in determining where assistance is required and secondly to reassure people help is on the way.

2-WAY PRODUCT FEATURES

- Battery support 24 + 3 hours (emergency)
- Fully compliant to BS5839 Pt9
- CE 2012 certified
- Available with flush or surface mounting back box

4-WAY PRODUCT FEATURES

- Battery support 24 + 3 hours (emergency)
- Fully compliant to BS5839 Pt9 and CE 2012 certified

8-WAY PRODUCT FEATURES

- Group call can also be selected
- Glazed lockable door
- Battery support 24 + 3 hours (emergency)
- Fully compliant to BS5839 Pt9 and CE 2012 certified

16-WAY PRODUCT FEATURES

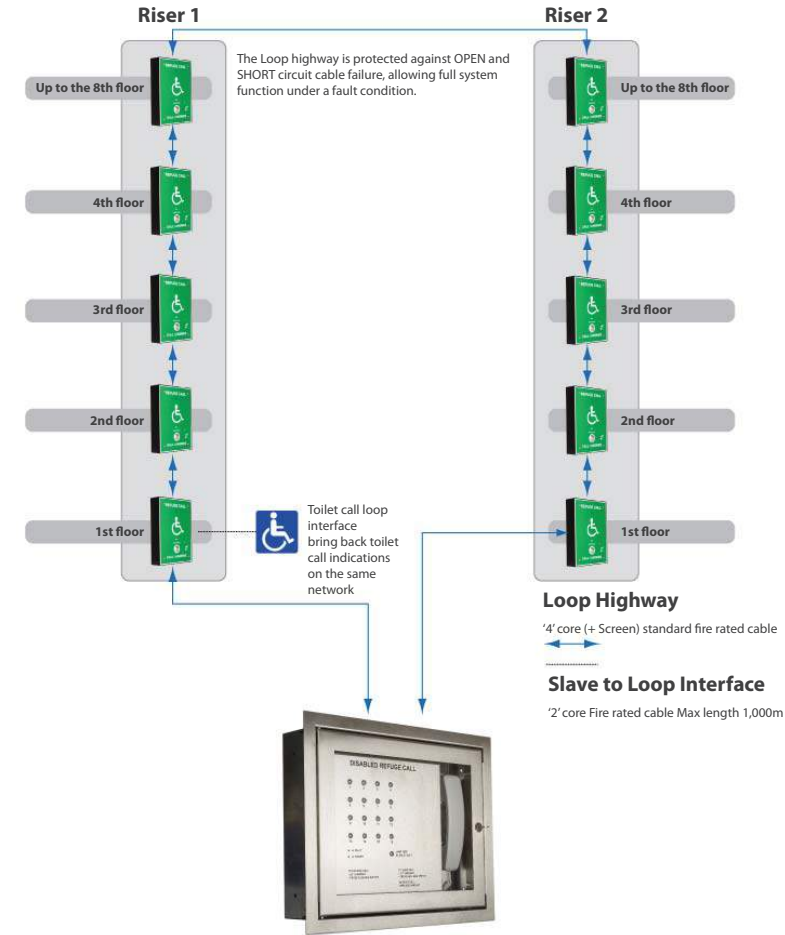
- Battery support 24 + 3 hours (emergency)
- Fully compliant to BS5839 Pt9 and CE 2012 certified



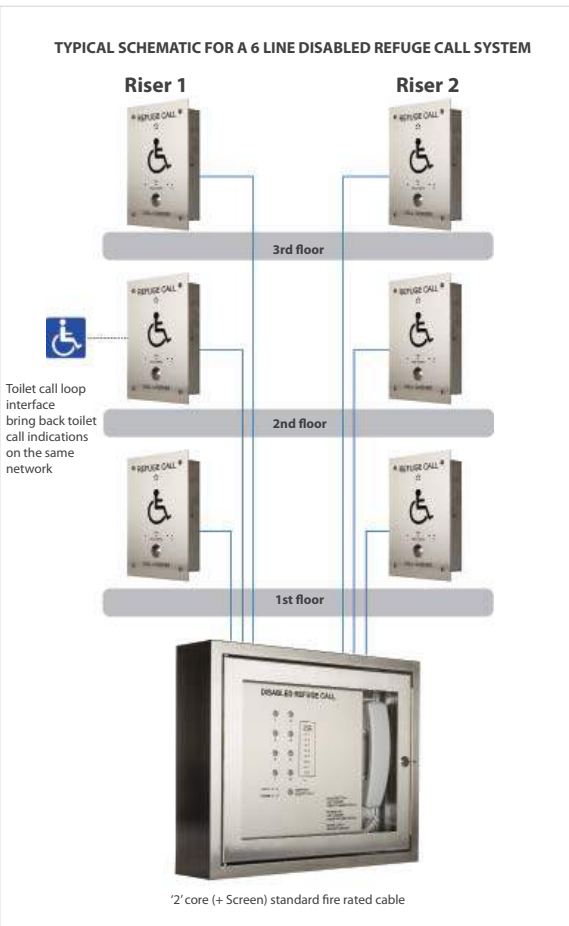
Images above, top to bottom show:
2-way surface mounted refuge panel R/CH/ORB/R/RS2F, Green Outstation faceplate and backbox R/CH/RCO/H/GB & R/CH/RCO/SL/BB, & 8-way surface fitting Refuge Panel R/CH/ORB/R/RS8S

Channel Orbital Range- Refuge Alarm System

Loop Wiring Diagram



Radial Diagram



2 WAY PANELS		
R/CH/ORB/R/RS2/F	£975.00	2 way orbital flush refuge panel - outstations purchased separately (Specify S/Steel or Green finish)
R/CH/ORB/R/RS2/S	£975.00	2 way orbital surface refuge panel - outstations purchased separately (Specify S/Steel or Green finish)
4 WAY PANELS		
R/CH/ORB/R/RS4/F	£1,611.00	4 way flush orbital refuge panel, stainless steel - outstations purchased separately (radial)
R/CH/ORB/R/RS4/S	£1,794.50	4 way orbital surface refuge panel, stainless steel - outstations purchased separately (radial)
8 WAY PANELS		
R/CH/ORB/R/RS8/F	£1,722.00	8 way flush orbital refuge panel, stainless steel - outstations purchased separately (radial)
R/CH/ORB/R/RS8/S	£1,983.25	8 way orbital surface refuge panel, stainless steel - outstations purchased separately (radial)
R/CH/ORB/L/RS8/F	£1,741.00	8 way flush orbital refuge panel, stainless steel - outstations purchased separately (loop)
R/CH/ORB/L/RS8/S	£1,986.50	8 way orbital surface refuge panel, stainless steel - outstations purchased separately (loop)
16 WAY PANELS		
R/CH/ORB/L/RS16/F	£3,401.75	16 way flush orbital refuge panel, stainless steel - outstations purchased separately (loop system) To wire this system to a radial configuration - please add F/CH/EXC16 to the loop wired panel
R/CH/EXC16	£785.00	Radial exchange unit to add to 16 way loop systems
OUTSTATIONS AND BACK BOXES		
R/CH/RCO/H/GB	£230.25	Green outstation faceplate (requires back box)
R/CH/RCO/H/SS/1	£230.25	Stainless steel outstation faceplate (requires back box)
R/CH/RCO/S/BB/1	£67.00	Refuge Call Back Box – surface mounting (radial)
R/CH/RCO/F/BB/1	£39.00	Refuge Call Back Box – flush mounting (radial)
R/CH/RCO/S/L/BB	£145.25	Refuge Call Back Box – surface mounting (loop)
R/CH/RCO/FL/BB	£120.50	Refuge Call Back Box – flush mounting (loop)

Please note: 32 and 48 way panels are also available should you require a larger system.
We can also provide these refuge systems to include the HARK Disabled toilet alarm (pages 110 & 111) - please contact sales for further information

Find your product by code

PRODUCT CODE	PAGE	PRODUCT CODE	PAGE	PRODUCT CODE	PAGE	PRODUCT CODE	PAGE
B/1.2V/4AH/NICD	24	B/BATT/METEOR/LED	14	D/ENT/SS/EB	47	E/DA/M3/LED/3/ST	9
B/12V/0.8AH/SLA	102	B/BATT/MM	15	D/ENT/STD-PCPS	47	E/EST/300/3000	28
B/12V/1.2AH/SLA	47	B/BATT/RAZOR/W	11	D/ENT/ULU/MULTI	43	E/EST/300/4000	28
B/12V/1.2AH/SLA	102	B/BATT/SOHO	31	D/ENT/VM/HF/7/MULTI	43	E/EST/500/3000	28
B/12V/12AH/SLA	73	D/CH/EDR/FLEX	43	D/ENT/VM/HF/7/MULTI/WH	43	E/EST/500/4000	28
B/12V/12AH/SLA	74	D/ENT/AUDIO/1	44	D/ENT/VPAN/MULTI	43	E/EST/90	28
B/12V/12AH/SLA	95	D/ENT/AUDIO/1/FL	44	D/ENT/WH/ED	43	E/EST/ICW	28
B/12V/12AH/SLA	97	D/ENT/AUDIO/2	44	D/ENT/WH/ED	47	E/EST/INTER	28
B/12V/12AH/SLA	102	D/ENT/AUDIO/2/FL	44	D/ENT/WH/ED	47	E/EST/PIR	28
B/12V/17AH/SLA	102	D/ENT/AUDIO/3	44	E/AL/M3/LED	8	E/EST/PSU/15W	28
B/12V/2.1AH/SLA	101	D/ENT/AUDIO/4	44	E/BEZ/ME	16	E/EST/PSU/30W	28
B/12V/2.1AH/SLA	102	D/ENT/AUDIO/4/FL	44	E/BEZ/MM	15	E/EST/SW	28
B/12V/2.3AH/SLA	67	D/ENT/AUDIO/6	44	E/BK/M3/LED/2	16	E/FALCON/11	32
B/12V/2.3AH/SLA	101	D/ENT/AUDIO/6/FL	44	E/BK/M3/LED/2/ST	16	E/FALCON/22	32
B/12V/2.3AH/SLA	102	D/ENT/AUDIO/8	44	E/BRACKET/ME	16	E/FALCON/22/PC	32
B/12V/2.3AH/SLA	125	D/ENT/AUDIO/8/FL	44	E/BZ/KIT/BROOK/WH	16	E/FALCON35	32
B/12V/2.8AH/SLA	72	D/ENT/AUDIO/HS	44	E/CAMBER/HANG	13	E/FLOOD/LED/100W/3	39
B/12V/2.8AH/SLA	101	D/ENT/AUDIO/PSU	43	E/CAMBER/HANG/ST	13	E/FLOOD/LED/150W/3	39
B/12V/2.8AH/SLA	102	D/ENT/AUDIO/PSU	47	E/CAMBER/SURF	13	E/FLOOD/LED/200W/3	39
B/12V/24AH/SLA	102	D/ENT/BU01	44	E/CAMBER/SURF/ST	13	E/FLOOD/LED/30W/3	39
B/12V/3.2AH/SLA	63	D/ENT/BU02	44	E/CAMBER/WALL	13	E/FLOOD/LED/30W/PIR/3	39
B/12V/3.2AH/SLA	66	D/ENT/BU03	44	E/CAMBER/WALL/ST	13	E/FLOOD/LED/50W/3	39
B/12V/3.2AH/SLA	70	D/ENT/BU04	44	E/CEILO/LED/DALI	20	E/FLOOD/LED/50W/PIR/3	39
B/12V/3.2AH/SLA	102	D/ENT/BU06	44	E/CEILO/LED/ST	20	E/FLOOD/LED/70W/3	39
B/12V/3.2AH/SLA	68	D/ENT/DA/KIT1	47	E/CH/ELTS	23	E/GL/LED/M3/5W/WH	19
B/12V/38AH/SLA	102	D/ENT/DA/KIT2	47	E/CHFO/M3/L/BRST	12	E/GL/LED/NM3/1W/WH	19
B/12V/4AH/SLA	102	D/ENT/DA/KIT3	47	E/CHFO/M3/L/CHST	12	E/GR/NM3/LED/2	17
B/12V/65AH/SLA	102	D/ENT/DA/KIT4	47	E/CHFO/M3/L/SAST	12	E/GR/NM3/LED/IP65/2	17
B/12V/7AH/SLA	72	D/ENT/DA/KIT8	47	E/CHFO/M3/L/WHST	12	E/LED/PANEL/M3/MODULE	23
B/12V/7AH/SLA	73	D/ENT/DA/KP/1	47	E/CHVL/M3/L/BRST	9	E/LEG/ME/AD	15
B/12V/7AH/SLA	74	D/ENT/EDR/FLEX	47	E/CHVL/M3/L/CHST	9	E/LEG/ME/AD	16
B/12V/7AH/SLA	89	D/ENT/EPX10	47	E/CHVL/M3/L/WHST	9	E/LEG/ME/ALR	15
B/12V/7AH/SLA	95	D/ENT/EPX10-HP	47	E/CHWG/1	107	E/ME/LED/SRK/1	14
B/12V/7AH/SLA	97	D/ENT/FL/1	44	E/CHWG/10	107	E/ME/M3/LED/IP65	14
B/12V/7AH/SLA	101	D/ENT/FL/2	44	E/CHWG/11	107	E/ME/M3/LED/IP65/ST	14
B/12V/7AH/SLA	102	D/ENT/FL/3	44	E/CHWG/12	55	E/ME/M3F	16
B/12V/7AH/SLA	119	D/ENT/GS/MULTI	43	E/CHWG/12	107	E/ME/M3F/110	15
B/12V/7AH/SLA	120	D/ENT/KEY/PROX/800	47	E/CHWG/13	107	E/ME/NM3F	16
B/2.4V/4AH/NICD	24	D/ENT/KT10-B	43	E/CHWG/14	107	E/MM/M3/LED	15
B/2.4V/4AH/NICD/S	24	D/ENT/KT10-B	47	E/CHWG/15	107	E/PIC/AL/AD	8
B/3.6V/4AH/NICD	24	D/ENT/MAG	43	E/CHWG/16	107	E/PIC/AL/AL	8
B/3.6V/4AH/NICD/S	24	D/ENT/MAG	47	E/CHWG/18	107	E/PIC/AL/AR	8
B/4.8V/4AH/NICD	24	D/ENT/MAG/BRACKET	43	E/CHWG/2	107	E/PIC/AL/AU	8
B/4.8V/4AH/NICD/S	24	D/ENT/MAG/BRACKET	47	E/CHWG/20	107	E/PIC/ME/LED/BLADE	14
B/6V/4AH/NICD	24	D/ENT/MAG/MON	43	E/CHWG/23	107	E/PIC/ME/LED/PACK	14
B/6V/4AH/NICD/S	24	D/ENT/MAG/MON	47	E/CHWG/25	107	E/PIC/ME/PACK	15
B/BATT/ALPINE	8	D/ENT/MASTER 1	44	E/CHWG/26	107	E/PIC/ME/PACK	16
B/BATT/BROOK/2	16	D/ENT/MASTER 2	44	E/CHWG/27	107	E/PIC/RZ/PACK	11
B/BATT/CAMBER	13	D/ENT/MASTER 3	44	E/CHWG/28	107	E/PIMLICO/14W	32
B/BATT/DA/FO/VL/NIHM	9	D/ENT/MDU/MULTI	43	E/CHWG/29	107	E/PIMLICO/14W/M3	32
B/BATT/DA/FO/VL/NIHM	9	D/ENT/MORTICE/FL	43	E/CHWG/3	107	E/PIMLICO/14W/M3/MW	32
B/BATT/DA/FO/VL/NIHM	9	D/ENT/MORTICE/FL	47	E/CHWG/30	107	E/PIMLICO/14W/MW	32
B/BATT/DA/FO/VL/NIHM	12	D/ENT/PSU	47	E/CHWG/31	107	E/PIMLICO/8W	32
B/BATT/DA/FO/VL/NIHM	12	D/ENT/PSU/12V/2A	47	E/CHWG/33	107		
B/BATT/DA/FO/VL/NIHM	12	D/ENT/PSU/MULTI	43	E/CHWG/4	107		
B/BATT/GROVE	17	D/ENT/RIM	43	E/CHWG/5	107		
B/BATT/GROVE/IP65	17	D/ENT/RIM	47	E/CHWG/6	107		
B/BATT/METEOR	15	D/ENT/SCP/MULTI	43	E/CHWG/7	107		
B/BATT/METEOR	16	D/ENT/SS/EB	43	E/CHWG/8	107		

Find your product by code

PRODUCT CODE	PAGE	PRODUCT CODE	PAGE	PRODUCT CODE	PAGE	PRODUCT CODE	PAGE
E/PIMLICO/TRIM/CH	32	F/55000-743	77	F/CH/CHQ-WPK (WHT)	83	F/CH/PIP-008	95
E/PINTO/12W	30	F/55000-744	77	F/CH/CHQ-WS2	83	F/CH/PIP-009	95
E/PINTO/12W/EM	30	F/55000-745	77	F/CH/CHQ-WS2(WHT) RL	83	F/CH/PIP-012	95
E/PINTO/20W	30	F/AL/H8028	98	F/CH/CHQ-WSB2(WHT) WL	83	F/CH/PIP-014	95
E/PINTO/20W/EM	30	F/AL/H8040N	98	F/CH/CHQ-WSB2(WHT) WL	83	F/CH/PIP-015	95
E/PINTO/30W	30	F/AL/H8045N	98	F/CH/CHQ-WSB2/RL	83	F/CH/PIP-016	95
E/PINTO/30W/EM	30	F/AL/H8069	98	F/CH/CHQ-WSB2/WL	83	F/CH/PIP-059-001	95
E/PINTO/EM/PP	30	F/AL/H9650	98	F/CH/CI	85	F/CH/PIP-059-007	95
E/PINTO/EM/PP/30W	30	F/AL/P CLIP	98	F/CH/ER	100	F/CH/PIP-221-035	95
E/ROME/10W	33	F/AL/T CLIP	98	F/CH/EDR/FLEX	100	F/CH/PIP-222-059	95
E/ROME/10W/4K	33	F/BASE/95	75	F/CH/ER	100	F/CH/SCP/KEY	83
E/ROME/15W	33	F/C/2010-2-NB	79	F/CH/AD2	85	F/CH/SI/CAP	83
E/ROME/20W	33	F/C4403A1R	65	F/CH/AD2 KIT	85	F/CH/SI/CAP(WHT)	83
E/RZ/M3/LED/F	11	F/C4403A2	65	F/CH/AD2 KIT	85	F/CH/SLR-E3N	97
E/RZ/M3/LED/H	11	F/C4403B	65	F/CH/AV2	85	F/CH/SMB-DIN1	79
E/RZ/M3/LED/R	11	F/C4408	65	F/CH/AV2 BASE	85	F/CH/SMB-DIN2	79
E/SOHO	31	F/C4408D	65	F/CH/AVADAPT	85	F/CH/SOLO/100	105
E/SOHO/M3	31	F/C4414	65	F/CH/DP	85	F/CH/SOLO/101	105
E/SOHO/M3/MW	31	F/C4416	65	F/CH/H-A1R	85	F/CH/SOLO/108	105
E/SOHO/MINI	31	F/CH/A45E-2	79	F/CH/H-A1R	85	F/CH/SOLO/200	105
E/SOHO/MINI/M3	31	F/CH/A50E-2	79	F/CH/H-A1R	85	F/CH/SOLO/330	105
E/SOHO/MW	31	F/CH/A51E-1	79	F/CH/H-A1R	85	F/CH/SOLO/423	105
E/SSPOT/LED/SURF/C	19	F/CH/A60E-2	79	F/CH/H-A1R	85	F/CH/SOLO/424	105
E/SSPOT/LED/SURF/OA	19	F/CH/A70E-2	79	F/CH/H-A1R	85	F/CH/SOLO/460	105
E/SSPOT/LED/SURF/ST/C	19	F/CH/ACC-EN	83	F/CH/H-A1R	85	F/CH/SOLO/461	105
E/SSPOT/LED/SURF/ST/O	19	F/CH/ACC-EN (WHT)	83	F/CH/H-A1R	85	F/CH/SOLO/610	105
E/SSPOT/MK2	18	F/CH/ACT-301	97	F/CH/H-A1R	85	F/CH/SOLO/726	105
E/SSPOT/MK2/DALI	18	F/CH/ACT-501	97	F/CH/H-A1R	85	F/CH/SOLO/760	105
E/TELESTO/HANG	10	F/CH/ACT-502	97	F/CH/H-A1R	85	F/CH/SOLO/808	105
E/TELESTO/SURF	10	F/CH/ACT-503	97	F/CH/H-A1R	85	F/CH/SOLO/809	105
E/TELESTO/WALL	10	F/CH/ACT-701	97	F/CH/H-A1R	85	F/CH/SOLO/810	105
E/TRI/152/LED/2	34	F/CH/ACT-702	97	F/CH/H-A1R	85	F/CH/SOLO/811	105
E/TRI/152/LED/M3/2	34	F/CH/ACT-703	97	F/CH/H-A1R	85	F/CH/SOLO/812	105
E/TRI/160/LED/HO	34	F/CH/ALN-EN	83	F/CH/H-A1R	85	F/CH/SOLO/814	105
E/TRI/160/LED/HO/M3	34	F/CH/ALN-EN (WHT)	83	F/CH/H-A1R	85	F/CH/SOLO/822	105
E/TRI/252/LED/2	35	F/CH/AOV-001	97	F/CH/H-A1R	85	F/CH/SOLO/823	105
E/TRI/252/LED/M3/2	35	F/CH/AOV-003	97	F/CH/H-A1R	85	F/CH/SOLO/CO	105
E/TRI/252/LED/M3/MW/2	35	F/CH/AOV-005	97	F/CH/H-A1R	85	F/CH/SOLOA3-001	105
E/TRI/260/LED/HO	35	F/CH/AOV-007	97	F/CH/H-A1R	85	F/CH/SOLOA7-001	105
E/TRI/260/LED/HO/M3	35	F/CH/AOV10/A	97	F/CH/H-A1R	85	F/CH/ST/03D	67
E/TRI/260/LED/HO/MW	35	F/CH/AOV10/B	97	F/CH/H-A1R	85	F/CH/ST/I-9105R	67
E/TYP/LED	33	F/CH/AOV20/B	97	F/CH/H-A1R	85	F/CH/ST/P-9907	67
E/TYP/LED/EYE	33	F/CH/AOV5/A	97	F/CH/H-A1R	85	F/CH/ST/RB102A	67
E/TYP/LED/GRI	33	F/CH/AOVZ-01	97	F/CH/H-A1R	85	F/CH/ST/RB104A	67
E/TYP/M3 GT	33	F/CH/ATJ-EN	83	F/CH/H-A1R	85	F/CH/ST/RB108A	67
F/4408R	65	F/CH/ATJ-EN(WHT)	83	F/CH/H-A1R	85	F/CH/ST/RB116A	67
F/45681-705	77	F/CH/BRK-301	97	F/CH/H-A1R	85	F/CH/ST/102A	67
F/45681-709	77	F/CH/BRK-303	97	F/CH/H-A1R	85	F/CH/ST/104A	67
F/55000-740	77	F/CH/BRK-304	97	F/CH/H-A1R	85	F/CH/ST/108A	67
F/55000-741	77	F/CH/BRK-502	97	F/CH/H-A1R	85	F/CH/ST/116A	67
F/55000-742	77	F/CH/CHQ-ADAPTER	83	F/CH/H-A1R	85	F/CH/ST/16A	67
		F/CH/CHQ-DSC/SCI	83	F/CH/H-A1R	85	F/CH/ST/102A	67
		F/CH/CHQ-DZM/SCI	83	F/CH/H-A1R	85	F/CH/ST/104A	67
		F/CH/CHQ-MRC2 (SCI)	83	F/CH/H-A1R	85	F/CH/ST/108A	67
		F/CH/CHQ-POM	83	F/CH/H-A1R	85	F/CH/ST/116A	67
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F/CH/ZP720-3P	79	F/CHHF/A/HT	66	F/CHSG	100	F/EDA-Z6010	89
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F/CH/ZP730-2P	79	F/CHHM/95	75	F/CHSM/A/95	75	F/EXT/2KG/DP	103
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F/CHBG/KS/SV	97	F/CHIF/XPAND	91	F/CHSW/3/Y	97	F/FW9003/2SE	73
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F/CHBG/S/KS	97	F/CHIS/95	75	F/CHWB/95/AP	75	F/FW9004/4	74
F/CHBG/S/SA	70	F/CHIS/95/DB	75	F/CHWB/AS/CAP/RD	68	F/FW9004/40Z	74
F/CHBG/S/SA/WP	70	F/CHRI/60	66	F/CHWB/AS/CAP/WH	68	F/FW9004/UL/DL	74
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F/CHBG/WP/95/1	75	F/CHRI/60	101	F/CHWB/BN/95/AP	75	F/KEY BOX GLAS	100
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F/CHBM/SA	87	F/CHSA/2/PRO	70	F/CHWB/RD/AS	68	F/PSU/24/5/BM	101
F/CHBN/95	75	F/CHSA/2/PRO/KIT	70	F/CHWB/RD/DB	66	F/PSU24/1.5/BMEN54	101
F/CHBN/95/A	75	F/CHSA/4/PRO	70	F/CHWB/XPAND	91	F/PSU24/3/EN54/1	101
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F/CHBN/SU/SA	70	F/CHSA/8/PRO	70	F/COVER/WH/1	75	F/SA5000-400APO	80
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F/SA5100-700APO	80	I/CHIL/102R	114	N/HARK/RI/2/SS	111	R/CH/ORB/R/RS4S	127
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Channel Safety Systems - Terms and Conditions

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- List prices are effective from 1st June 2016.
- All prices are subject to VAT.
- For equipment performance data please refer to the relevant Channel Safety Systems product data sheets detailed on our website www.channelsafety.co.uk.
- The information provided in this price list is for guidance only and does not form part of a contract. Specifications should be checked prior to ordering.
- Minimum Order Value = £150. All orders below this value are subject to £12.50 standard delivery charge. Timed deliveries are available subject to an additional premium, please contact our sales office on 0845 884 7000 for a quote. All prices quoted exclude VAT.
- All orders placed before 4pm we offer a guaranteed next day delivery service (please refer to full T&C's for exemptions)
- Orders for Next Day delivery must be received by 4pm. Orders processed before 4pm will be sent for next day delivery, dependent on stock availability.
- Dispatch days are Monday through to Friday.
- On site deliveries, or deliveries different to billing addresses are made entirely at the customers own risk and are on the understanding that safe access is available. A disclaimer must be signed and returned before delivery, Channel will not be liable for lost goods after having obtained signature on site if further goods are required.
- Errors & omissions excluded. Specification is subject to change without notice.
- All goods are supplied subject to Channel Safety Systems' terms and conditions - for full Terms & Conditions are available on our website at www.channelsafety.co.uk/about-us/toba/ or from our sales office.

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