

Flat shape inductive sensor in compact plastic housing

The TL-W family offers a wide range of block style inductive sensors for simple mounting on flat surfaces. With sensing distances from 1.5 mm to 20 mm the TL-W is the ideal solution for all standard applications.

- IP67
- DC 2-wire and DC 3-wire models
- Sensing distances from 1.5 mm to 20 mm
- Side facing sensing face

Ordering information

TL-W

DC 2-wire models									
Size in mm (HxWxD)	-		· ·	Order code (for pre-wired types with 2 m cable length)					
				Operation mode NO		Operation mode NC			
31x18x10	-		5 mm	TL-W5MD1		TL-W5MD2			
DC 3-wire models									
Size in mm				Order code (for pre-wired types with 2m cable length)					
(HxWxD)	₽			PNP-NO	PNP-NC	NPN-NO	NPN-NC		

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25x8x5	-	•	1.5 mm	TL-W1R5MB1	-	TL-W1R5MC1	-
22x8x6			3 mm	TL-W3MB1	TL-W3MB2	TL-W3MC1	TL-W3MC2
31x18x10			5 mm	TL-W5MB1	TL-W5MB2	TL-W5MC1	TL-W5MC2
53x40x23			20 mm	-	-	TL-W20ME1	TL-W20ME2
31x18x10		-	5 mm	TL-W5F1	TL-W5F2	TL-W5E1	TL-W5E2

Specifications

Item		TL-W5MD	TL-W1R5M 1	TL-W3M	TL-W5M	TL-W5E /F	TL-W20ME		
Sensing distance		5 mm ±10%	1.5 mm ±10%	3 mm ±10%	5 mm ±10%		20 mm ±10%		
Response frequency		0.5 kHz	1 kHz min.	600 Hz min.	500 Hz min.	300 Hz min.	40 Hz min.		
Power supply (operating vol	•					10 to 30 VDC with a ripple (p-p) of 20% max.	12 to 24 VDC (10 to 30 VDC) ripple (p-p): 10% max.		
Protective circuit		Surge absorber; short- circuit protection							
Ambient temperature		Operating/Storage: -25 to 70°C (with no icing or condensation)							
Degree of protection		IEC60529 IP67							
Material	Case	Heat-resistant ABS resin				Diecast aluminum	Heat-resistant ABS resin		
	Sensing surface	Heat-resistant ABS resin							

