

WAVESERIES
WAS5 CCC LP 0-20/0-20mA

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The ACT20M-CI-CO-ILP, MCZ CCC and WAS5 CCC LP are 1/2-channel passive isolators that are supplied via the input loop current. They are optionally available in 6 mm (ACT20M/ MCZ series) or 17.5 mm (WAS5 CCC LP) housings.

The input and output circuits are completely, electrically isolated from each other. The passive isolators are designed with 1 or 2 channels. International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.

Passive isolators are used to electrically isolate normalised signals (from 0/4 to 20 mA). The modules get their power supply from the current loop on the input side. The power for signal transmission and supply comes from the active 0/4–20 mA signal. They have very low current consumption and can be used anywhere in the field where no suitable power supply is available.

These devices are used in a variety of application processes as signal isolators and signal multipliers. They can be used to eliminate measurement errors caused by differences in earth potentials.

General ordering data

Type	WAS5 CCC LP 0-20/0-20mA
Order No.	8444950000
Version	Passive isolator, Screw connection
GTIN (EAN)	4032248102099
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	92.4 mm	Width	17.5 mm
Depth	112.4 mm	Net weight	125 g

Temperatures

Operating temperature	-25 °C...+70 °C	Storage temperature	-40 °C...+80 °C
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Probability of failure

MTTF	2,097 Years
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Input

Pick-up current	< 100 µA	Input current	0(4)...20 mA current loop
Number of inputs	1	Voltage drop	Approx. 3 V at $R_L = 0 \Omega$; approx. 13 V at $R_L = 500 \Omega$; ($I_N = 20 \text{ mA}$)

Output

Number of outputs	1	load impedance current	$\leq 500 \Omega$
Output current	0(4)...20 mA		

General data

Accuracy	< 0.1 % of end value	Galvanic isolation	Passive isolator
Input/Output	0(4)...20 mA/0(4)...20 mA (1-channel)	Mounting rail	TS 35
Temperature coefficient	$\leq 50 \text{ ppm/K}$ of final value	Type of connection	Screw connection

Insulation coordination

Clearance & creepage distances	$\geq 5.5 \text{ mm}$	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	Passive isolator	Impulse withstand voltage	6 kV
Insulation voltage	4 kV _{eff} / 1 s	Insulation voltage input or output/rail	4 kV _{eff} / 1 min.
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

Classifications

UNSPSC	31-12-10-07	eClass 5.1	27-21-01-20
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20

Approvals

Approvals



ROHS Conform

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Technical data**Downloads**

Package insert	instruction sheet.pdf
Declaration of Conformity	Declaration of Conformity.pdf
EPLAN	8444950000.ema

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