WAVESERIES
WAS5 CCC 2OLP

Weidmüller Interface GmbH & Co. KG
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The ACT20M-CI-CO-OLP, WAS/WAZ5 OLP signal isolator/ splitter (2-wire system) is supplied via the output current loop and has an analogue DC current input.
The 1- and 2-channel signal isolators are supplied from the current loop. They are available in the 6.1 mm (ACT20M series) or 17.5 mm (WAVESERIES) housings.
The input and output circuits are electrically isolated from each other.
The power is supplied via the 4–20 mA current loop on the output side.
The devices come optionally in a splitter version with two loop-fed outputs.
The devices can be mounted on a DIN rail and consume minimal power.
International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.
Signal converters with output-loop power supplies are used in a variety of application processes as signal isolators and signal multipliers (splitters) and signal amplifiers. They can be used to eliminate measurement errors caused by differences in earth potentials.

General ordering data

Order No.	8581160000
Type	WAS5 CCC 2OLP
Version	WAVESERIES, Signal converter/disconnector
GTIN (EAN)	4032248234462
Qty.	1 pc(s).

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Technical data

Dimensions

Length	92.4 mm	Width	17.5 mm
Height	112.4 mm		

Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C

Probability of failure

MTTF	228

Input

Input current	4...20 mA (current loop)	Number of inputs	1
Voltage drop	3.8 V		

Output

Cut-off frequency (-3 dB)	30 Hz	Number of outputs	2
load impedance current	R_L = (U_B-12 V) / 20 mA z.B. 600 Ω at 24 V	Status indicator	Green LED
Output signal limit	Approx. 31 mA	Output current	2 x 4...20 mA (current loop)

General data

Accuracy	typ. 0.1 %; max. 0.2 %	Galvanic isolation	Passive isolator
Input/Output	4...20 mA/ 2 x 4...20 mA	Mounting rail	TS 35
Step response time	< 20 ms	Supply voltage	min. 12 V DC/ max. 30 V DC
Temperature coefficient	≤ 150 ppm/K	Type of connection	Screw connection

Insulation coordination

Clearance & creepage distances	≥ 5.5 mm	EMC standards	EN 55011, EN 61000-6
Impulse withstand voltage	4 kV	Insulation voltage	4 kV_{eff} / 5 s
Insulation voltage input or output/rail	4 kV_{eff} / 1 min.	Insulation voltage input or output/supply	4 kV_{eff} / 5 s
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

Classifications

ETIM 4.0	EC002653	eClass 6.0	27-21-01-20
eClass 7.0	27-21-01-20		

Approvals

Approvals

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Technical data

Downloads

Declaration of Conformity	K232_06_09.pdf
EPLAN	8581160000.ema
3-D model	

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Drawings

Electric symbol