

ACT20M ACT20M-CI-CO-OLP-S

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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

Type	ACT20M-CI-CO-OLP-S
Order No.	1176040000
Version	ACT20M, Signal converter/disconnector, Screw connection
GTIN (EAN)	4032248970155
Qty.	1 pc(s).

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Technische Daten
Dimensions and weights

Width	6.1 mm	Height	112.5 mm
Depth	114.3 mm	Net weight	80 g

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...+70 °C
Ambient temperature	-25 °C...+70 °C	Storage temperature	-40 °C...+85 °C

Input

Supply voltage	Output loop powered	Voltage drop, current input	Typical 2.5 V
Input frequency	100 Hz	Input current	4...20mA
Temperature input range	Configurable	Voltage drop	Typical 2.5 V

Output

Supply voltage	6...35 V	Cut-off frequency (-3 dB)	100 Hz
Number of outputs	1	load impedance current	≤ 600 Ω (channel 1 +2), @ max 23mA
Output current	4...20 mA		

General data

Accuracy	< 0.05 % of measuring range	Configuration	none
Galvanic isolation	Passive isolator	Mounting rail	TS 35
Power consumption, max.	30 mW per channel	Step response time	≤ 5 ms
Supply voltage	Output loop powered	Temperature coefficient	≤ ±0.02 µA x (Δ °C x V supply) @ Tamb > 25 °C
Type of connection	Screw connection		

Insulation coordination

EMC standards	EN 61326-1	Galvanic isolation	Passive isolator
Insulation voltage	2.5 kV _{eff}	Pollution severity	2
Rated voltage	300 V _{eff}	Standards	DIN EN 61010-1, DIN EN 60079, DIN EN 61326-1
Surge voltage category	II		

Ratings IECEx/ATEX

Certificate No. (ATEX)	KEMA10ATEX0183X	Certificate No. (IECEx)	IECExKEM10.0090X
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Classifications

ETIM 3.0	EC002479	eClass 6.2	27-21-01-20
eClass 7.1	27-21-01-20		

Product information

Descriptive text technical data	Power supply optionally over the DIN mounting rail CH20M
Descriptive text accessories	DIN mounting rail, see Accessories

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Technische Daten

Approvals

Approvals



ROHS

Conform

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Zeichnungen

Electric symbol

