

ACT20M-CI-CO-S

Weidmüller Interface GmbH & Co. KG

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The externally supplied ACT20M-CI-CO, MAS RPS/RPSH, MCZ CFC and WAS/WAZ 4/5 C signal converters/supply isolators can transmit, isolate and convert normalised DC current signals. They are optionally available in widths of 6 mm (ACT20M/MCZ), 12.5 mm (WAS/WAZ4) or 17.5 mm (WAS/WAZ5).

The input and output circuits are completely electrically isolated, as is the power supply. The input signal is converted into a DC current/voltage value (ACT20M, WAS/WAZ) or into a proportional frequency (MCZ CFC) between 0–1/4/8/16 kHz.

The WAVESERIES signal converters are available with a limiting frequency of either 10 Hz (WAS/WAZ4) or 20 kHz (WAS/WAZ5) so that they can process signals quickly.

The MAS/RPS/RPSH supply isolator can supply 2-wire sensors externally. They can also be used optionally to transmit the HART protocol (MAS RPSH).

The 24 VDC supply voltage can be cross-connected on the module side via the CH20M BUS profile (ACT20M series) or using the ZQV4N (MAS/MCZ) or ZQV 2,5N (WAS/WAZ) pluggable jumpers.

International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.

General ordering data

Order No.	1175980000
Type	ACT20M-CI-CO-S
GTIN (EAN)	4032248970131
Qty.	1 pc(s).

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Technical data

Dimensions

Length	114.3 mm	Width	6.1 mm
Height	112.5 mm		

Temperatures

Operating temperature	-25 °C...+70 °C	Ambient temperature (text)	-40 °C...+70 °C
Storage temperature	-40 °C...+85 °C		

Input

Input frequency	100 Hz	Input current	0(4)...20 mA
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Output

Cut-off frequency (-3 dB)	100 Hz	Number of outputs	1
load impedance current	≤ 600 Ω	Output current	0(4)...20 mA

General data

Accuracy	< 0.05 % of measuring range	Galvanic isolation	3-way isolator
Humidity	40°C / 93% rel. humidity, no condensation	Mounting rail	TS 35
Supply voltage	24 V DC ± 30 %	Temperature coefficient	≤ 0.01 % / °C
Type of connection	Screw connection		

Insulation coordination

EMC standards	EN 61326-1	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)	IECExKEM10.0090
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Classifications

ETIM 3.0	EC002479	ETIM 4.0	EC002653
eClass 6.0	27-21-01-20		

Approvals

Approvals	CE; CULUS; DETNORVER; FMEX; GERMLLOYD; IECExKEM; KEMAATEX; ROHS
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Drawings

Electric symbol

