

ACT20M ACT20M-CI-2CO-S

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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 standardised

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.	1175990000
Type	ACT20M-CI-2CO-S
Version	ACT20M, Signal converter/disconnector, Screw connection
GTIN (EAN)	4032248969982
Qty.	1 pc(s).

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Technical data
Dimensions and weights

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

Temperatures

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

Probability of failure

MTBF	219 Years
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Input

Input current	0(4)...20 mA	Voltage drop	<1,5 V
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Output

Cut-off frequency (-3 dB)	100 Hz	load impedance voltage	≥ 10 kΩ
Number of outputs	2	load impedance current	< 300 Ω, per channel
Output current	0(4)...20 mA		

General data

Accuracy	< 0.05 % of measuring range	Galvanic isolation	3-way isolator
Humidity	95 %, no condensation	Mounting rail	TS 35
Step response time	≤ 7 ms	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)	IECEXKEM10.0090X
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Classifications

ETIM 3.0	EC002479	eClass 6.0	27-21-01-20
eClass 7.0	27-21-01-20		

Data sheet...**ACT20M**
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Approvals

**Downloads**

Package insert	IS_ACT20M-CI-CO-S_Print.pdf
Declaration of Conformity	K_457_07_11.pdf

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Drawings

Electric symbol

