

## ACT20M ACT20M-CI-CO-S

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 1429-0  
 Fax: +49 5231 14292083  
 www.weidmueller.com



### ACT20M: The slim solution

- Safe and space-saving (6 mm) isolation and conversion
- Quick installation of the power supply unit using the CH20M mounting rail bus
- Easy configuration via DIP switch or FDT/DTM software
- Extensive approvals such as ATEX, IECEx, GL, DNV
- High interference resistance

### General ordering data

Type	ACT20M-CI-CO-S
Order No.	<a href="#">1175980000</a>
Version	Signal converter/insulator, Signal converter/insulator, Input : 4-20 mA, Output : 4-20 mA
GTIN (EAN)	4032248970131
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Width	6.1 mm	Width (inches)	0.24 inch
Height	112.5 mm	Height (inches)	4.429 inch
Depth	114.3 mm	Depth (inches)	4.5 inch
Net weight	87 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

**Probability of failure**

MTBF	284 Years
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**Input**

Number of inputs	1	Sensor	Current source
Input current	0...20 mA, 4...20mA	Voltage drop, current input	< 1.5 V
Input resistance, current	70 Ω	Voltage drop	<1,5 V

**Output**

Number of outputs	1	Output current	0...20 mA, 4...20 mA
Cut-off frequency (-3 dB)	100 Hz	load impedance current	≤ 600 Ω, @ max 23mA

**General data**

Accuracy	< 0.05 % of measuring range	Configuration	none
Galvanic isolation	3-way isolator	Mounting rail	TS 35
Power consumption, max.	0.65 W	Power consumption, typ.	0.46 W
Step response time	≤ 7 ms	Supply voltage	24 V DC ± 30 %
Temperature coefficient	≤ 0.01 % / °C		

**Insulation coordination**

EMC standards	IEC 61326-1, NE 21	Galvanic isolation	3-way isolator
Insulation voltage	2.5 kV <sub>eff</sub> / 1 min.	Pollution severity	2
Rated voltage	300 V <sub>eff</sub>	Standards	IEC 61010-1
Surge voltage category	II		

**Data for Ex applications (ATEX)**

Marking	II 3 G Ex nA IIC T4 Gc
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**Connection data**

Type of connection	Screw connection	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.6 Nm	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, rated connection, min.	0.5 mm <sup>2</sup>	Clamping range, rated connection, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

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**Technical data**
**Rated data UL**

UL certificate E337701.pdf

**Ratings IECEx/ATEX/cUL**

Certificate No. (ATEX) KEMA10ATEX0183X Certificate No. (IECEX) IECEXKEM10.0090X

**Classifications**

ETIM 3.0	EC002479	ETIM 4.0	EC002653
ETIM 5.0	EC002653	ETIM 6.0	EC002653
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20
eClass 8.1	27-21-01-20	eClass 9.0	27-21-01-20
eClass 9.1	27-21-01-20		

**Product information**

Product information	The non-adjustable DC isolating amplifier ACT20M-CI-CO-S isolates analogue standard current signals. An analogue input current signal is linearly converted to an analogue output current signal and is galvanically isolated. The power supply is galvanically isolated from the input and output (3-way isolation) by means of direct wiring or the Weidmüller rail bus. The non-adjustable DC isolation amplifier ACT20M CI-2CO-S offers the same functionality, but has 2 galvanically isolated outputs (4-way isolation).
Descriptive text technical data	Power supply optionally over the DIN mounting rail CH20M
Descriptive text accessories	DIN mounting rail, see Accessories

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
User Documentation	<a href="#">Instruction sheet</a>

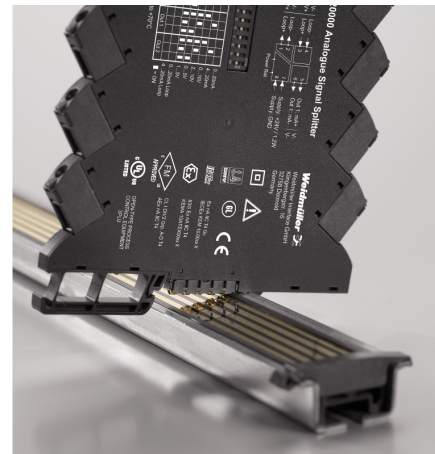
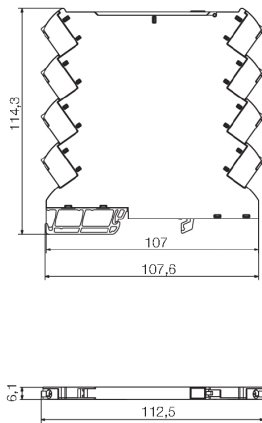
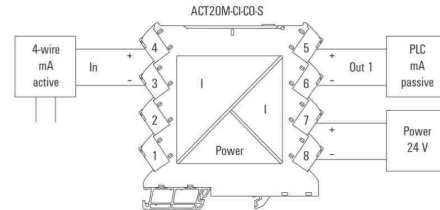
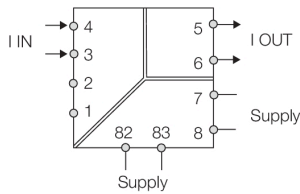
**Data sheet**

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**Drawings**

**Electric symbol**



Power supply via the rail bus