

## ACT20M ACT20M-CI-CO-OLP-S

**Weidmüller Interface GmbH & Co. KG**  
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### Product image, Similar to illustration



#### 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-OLP-S
Order No.	<a href="#">1176040000</a>
Version	Signal converter/insulator, Output current loop powered, 1-channel, Input : 4-20 mA, Output : 4-20 mA
GTIN (EAN)	4032248970155
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	80 g		

**Temperatures**

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

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Rated data UL**

UL certificate E337701.pdf

**Input**

Number of inputs	1	Sensor	2-wire transmitter (without own power supply)
Sensor supply	6...35 V (@ 20 mA)	Input current	4...20mA
Voltage drop, current input	Typical 2.5 V		

**Output**

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

**General data**

Accuracy	< 0.05 % of measuring range	Configuration	none
Galvanic isolation	2-way isolator	Power consumption, max.	0.5 W
Rail	TS 35	Step response time	≤ 5 ms
Temperature coefficient	±0.02 µA x (Δ °C x V supply) @ Tamb > 25 °C	Voltage supply	Output loop powered

**Insulation coordination**

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

**Data for Ex applications (ATEX)**

Marking II 3 G Ex nA IIC T4 Gc

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**Technical data****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, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 14

**Ratings IECEx/ATEX/cUL**

Certificate No. (ATEX)	KEMA10ATEX0183X	Certificate No. (IECEX)	IECEXKEM10.0090X
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**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 passive isolator ACT20M-CI-CO-OLP-S isolates standard analogue current signals. An analogue input current signal is linearly converted into an analogue output current signal and is galvanically isolated. Power is supplied through the output measuring circuit (output loop-powered).
Descriptive text technical data	Power supply optionally over the DIN mounting rail CH20M
Instructions for accessories	DIN mounting rail, see Accessories

**Approvals**

Approvals



ROHS	Conform
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**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>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet</a>

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**Drawings**

**Connection diagram**

