

## ACT20M ACT20M-2CI-2CO-ILP-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-2CI-2CO-ILP-S
Order No.	<a href="#">1176080000</a>
Version	Signal converter/insulator, Input current loop feed, 2-channel, Input : 4-20 mA, Output : 4-20 mA
GTIN (EAN)	4032248970001
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	97 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

**Probability of failure**

MTBF	699 Years
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**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Input**

Number of inputs	2	Sensor	Current source
Input current	0...20 mA, 4...20mA	Voltage drop, current input	1.25 V + 0.015 V <sub>out</sub> @25°C
Input frequency	100 Hz		

**Output**

Number of outputs	2	Output current	0...20 mA, 4...20 mA
Cut-off frequency (-3 dB)	100 Hz	Load impedance current	≤600 Ω (channel 1 + 2)

**General data**

Accuracy	< 0.1 % of measuring range	Configuration	none
Galvanic isolation	2-way isolator	Power consumption	30 mW per channel
Rail	TS 35	Step response time	≤ 5 ms
Temperature coefficient	≤ 0.01 % / °C	Voltage supply	Loop powered, via 4...20 mA input

**Insulation coordination**

EMC standards	IEC 61326-1, NE 21	Galvanic isolation	2-way isolator
Insulation voltage	2.5 kV <sub>eff</sub>	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

**Classifications**

ETIM 6.0	EC002653	ETIM 7.0	EC002653
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-20
eClass 10.0	27-21-01-20		

**Product information**

Product information The ACT20M-CI-CO-ILP-S passive isolator isolates standard analogue current signals. An analogue input current signal is linearly converted to an analogue output current signal and is galvanically isolated. Power is supplied through the input measuring circuit (input loop-powered).  
 The passive isolator ACT20M-2CI-2CO-ILP-S offers the same functionality, but has two galvanically isolated channels.

**Approvals**

Approvals



ROHS

Conform

**Downloads**

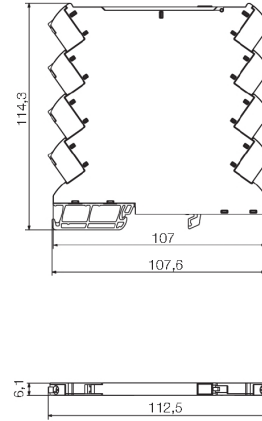
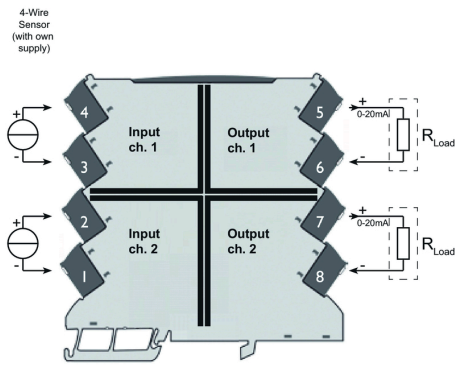
Approval/Certificate/Document of Conformity	<a href="#">DNV-GL certificate</a> <a href="#">EAC certificate</a> <a href="#">FM certificate</a> <a href="#">IECEx certificate</a> <a href="#">ATEX certificate</a> <a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 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**

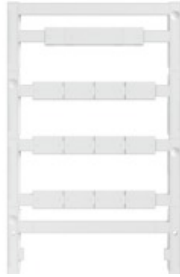


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**Accessories**

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Accessories for the analogue signal processing products:

- End plates: for components with terminal-block design
- Retaining clips: for mounting IP6X signal isolators and displays
- Calibration devices: for calibrating and setting analogue signal converters
- MICRO interface: for direct transmission to a controller thus minimizing the wiring overhead
- markers
- Programming adapter: for configuring PC-configurable modules
- Cross-connector
- Power supply modules / power supplies
- Optional connection terminals and cold-junction compensation terminals

**General ordering data**

Type	MF 5/7.5 MC NE WS	Version
Order No.	<a href="#">1877680000</a>	MultiFit, Terminal marker, 5 x 7.5 mm, Pitch in mm (P): 7.50 Adels
GTIN (EAN)	4032248468270	RKW, Phoenix, white
Qty.	320 pc(s).	