

## ACT20M-2CI-2CO-OLP-S

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

### 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

Version	Passive isolator, Output current loop powered, 2-channel, Input : 2 x 4-20 mA, Output : 2 x 4-20 mA
Order No.	<a href="#">1176050000</a>
Type	ACT20M-2CI-2CO-OLP-S
GTIN (EAN)	4032248969999
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E337701

**Dimensions and weights**

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	112.5 mm	Height (inches)	4.4291 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	96 g		

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	40 °C / 93 % rel. humidity, no condensation

**Probability of failure**

SIL in compliance with IEC 61508	None
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**Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

**Input**

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

**Output**

Number of outputs	2	Load impedance current	≤600 Ω (channel 1 + 2), @ max 23mA
Type	passive, connected control must be active	Output current	4...20 mA
Cut-off frequency (-3 dB)	100 Hz	Supply voltage (output)	6...35 V

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## Technical data

### General data

Accuracy	<0.05 % of measuring range	Protection degree	IP20
Supply voltage	Output loop powered	Step response time	≤ 5 ms
Mounting rail	TS 35	Temperature coefficient	≤± 0.07 µA x (Δ °C x V supply) @ Tamb <25 °C
Nominal power consumption	0.05 VA	Configuration	none
Operating altitude	≤ 2000 m	Power consumption, max.	0.1 mW
Power consumption, typ.	0.05 W		

### Insulation coordination

EMC standards	EN 61326-1, EN 61326-3-1	Surge voltage category	II
Pollution severity	2	Galvanic isolation	2-way isolator
Insulation voltage	2.5 kVeff /1 min.	Rated voltage	300 Veff

### Data for Ex applications (ATEX)

Marking	II 3 G Ex nA IIC T4 Gc	IECEx - gas labelling	Ex nA IIC T4 Gc, Standard: IEC 60079-0-15
Installation location	Device installed in safe area, zone 2		

### 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

### EMC conformity and approvals

EMC standards	EN 61326-1, EN 61326-3-1	Standards	IEC 61010-1
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### Part description

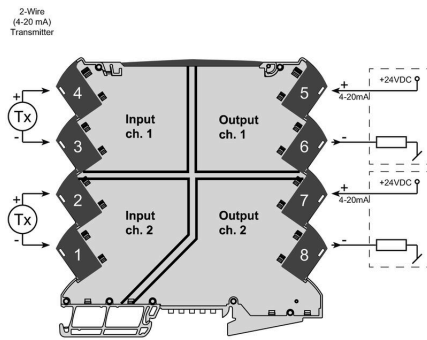
Product description	<p>The passive isolator ACT20M-CI-CO-OLP-S isolates standard analogue current signals. An analogue input current signal is linearly converted into an analogue output current signal and galvanically isolated. Power is supplied through the output measurement circuit (output loop-powered).</p> <p>The passive isolator ACT20M-2CI-2CO-OLP-S offers the same functionality, but has two galvanically isolated channels..</p>
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### Classifications

ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

Drawings

Connection diagram



Dimensional drawing

