

**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 pc(s).

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

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	112.5 mm	Height (inches)	4.429 inch
Width	6.1 mm	Width (inches)	0.24 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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**Input**

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

**Output**

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

**General data**

Accuracy	<0.05 % of measuring range	Configuration	none
Galvanic isolation	2-way isolator	Power consumption, max.	50 mW
Power consumption, typ.	50 mW	Rail	TS 35
Step response time	≤ 5 ms	Temperature coefficient	≤± 0.07 µA x (Δ °C x V <sub>supply</sub> ) @ Tamb < 25 °C ≤±0.02 µA x (Δ °C x V <sub>supply</sub> ) @ 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)**

Installation location	Device installed in safe area, zone 2	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

**EMC conformity and approvals**

EMC standards	IEC 61326-1, NE 21	Standards	IEC 61010-1
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**Classifications**

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ETIM 9.0	EC002653
ECLASS 9.0	27-21-01-20	ECLASS 9.1	27-21-01-20
ECLASS 10.0	27-21-01-20	ECLASS 11.0	27-21-01-20
ECLASS 12.0	27-21-01-20	ECLASS 13.0	27-21-01-20

**Tender specification sheets**

Long specification	Short specification	<b>Standard signal isolating amplifier 2-channel signal isolating amplifier in 6.1 mm width with output current loop feed, for transmitting and isolating analogue DC current signals from 0/4 to 20 mA</b>
<b>Type ACT20M-2CI-2CO-OLP-S</b>		

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

**Important note**

Product information	<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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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E337701

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">DNV-GL certificate</a> <a href="#">FM certificate</a> <a href="#">IECEXx certificate</a> <a href="#">ATEX certificate</a> <a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">Zuken E3.S</a>
User Documentation	<a href="#">Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

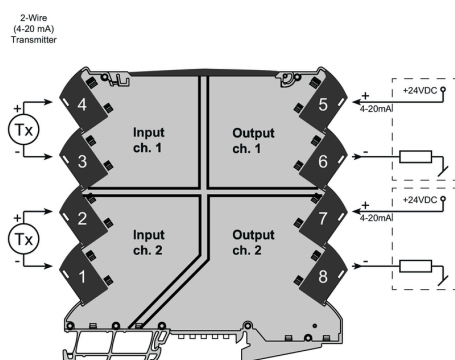
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# Drawings

## Connection diagram



## Dimensional drawing

