

**ACT20M-2CI-2CO-ILP-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, Input current loop feed, 2-channel, Input : 2 x 0(4) - 20 mA, Output : 2 x 0(4) - 20 mA
Order No.	<a href="#">1176080000</a>
Type	ACT20M-2CI-2CO-ILP-S
GTIN (EAN)	4032248970001
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	97 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	MTBF	699 a
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**Input**

Input current	0...20 mA, 4...20mA	Input voltage	> 3 V @ 20 mA
Number of inputs	2	Sensor	Current source
Voltage drop, current input	1.25 V + 0.015 V <sub>out</sub> @25°C		

**Output**

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

**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	EN 61326-1	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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**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

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## Technical data

### EMC conformity and approvals

EMC standards	EN 61326-1	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	<p><b>Isolation</b> <b>EN 61010-1, 2-way isolation up to 2.5 kV AC/DC</b> <b>Test voltage</b> <b>2.5 kV input against output against auxiliary power</b> <b>Rated voltage</b> <b>300 V AC/DC at overvoltage category II and pollution degree 2</b> <b>Approvals cULus, FM Div2, ATEX Zone2, DNV, GL</b></p> <p><b>Type</b> <b>ACT20M-2CI-2CO-ILP-S</b></p>	Short specification	<p><b>Standard signal passive isolator</b> <b>2-channel signal passive isolator in 6.1 mm width with input current loop feed, for transmitting and isolating analogue DC current signals from 0/4 to 20 mA</b></p>
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### Environmental Product Compliance

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

### Important note

Product information	<p>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).</p> <p>The passive isolator ACT20M-2CI-2CO-ILP-S offers the same functionality, but has two galvanically isolated channels.</p>
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Approvals



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

**Downloads**

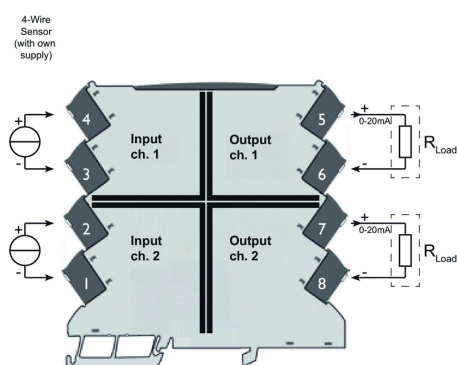
Approval/Certificate/Document of Conformity	<a href="#">DNV-GL certificate</a> <a href="#">FM certificate</a> <a href="#">IECEXx certificate</a> <a href="#">ATEX certificate</a> <a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">Zuken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

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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Connection diagram****Dimensional drawing**