

ACT20M-2CI-2CO-ILP-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	Signal converter/insulator, Input current loop feed, 2-channel, Input : 0(4)-20 mA, Output : 4-20 mA
Order No.	1176080000
Type	ACT20M-2CI-2CO-ILP-S
GTIN (EAN)	4032248970001
Qty.	1 pc(s).

Creation date March 23, 2021 7:44:03 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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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
Net weight	97 g	Width	6.1 mm
Width (inches)	0.24 inch		

Temperatures

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

Probability of failure

MTBF	699 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Input current	0...20 mA, 4...20mA	Input frequency	100 Hz
Number of inputs	2	Sensor	Current source
Voltage drop, current input	1.25 V + 0.015 V _{out} @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

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	Type of connection	Screw connection
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 _{eff}	Pollution severity	2
Rated voltage	300 V _{eff}	Surge voltage category	II

Data for Ex applications (ATEX)

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 ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²
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	ECLASS 11.0	27-21-01-20

Tender specification sheets

Long specification	<p>Isolation EN 61010-1, 2-way isolation up to 2.5 kV AC/DC Test voltage 2.5 kV input against output against auxiliary power Rated voltage 300 V AC/DC at overvoltage category II and pollution degree 2 Approvals cULus, FM Div2, ATEX Zone2, DNV, GL</p> <p>Type ACT20M-2CI-2CO-ILP- S</p>	Short specification	<p>Standard signal passive isolator 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</p>
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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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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	E337701

Downloads

Approval/Certificate/Document of Conformity	DNV-GL certificate FM certificate IECEX certificate ATEX certificate Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	Instruction sheet

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Drawings

www.weidmueller.com

Connection diagram

