

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.	1176050000
Type	ACT20M-2CI-2CO-OLP-S
GTIN (EAN)	4032248969999
Qty.	1 pc(s).

Creation date March 2, 2023 10:40:53 AM CET

Catalogue status 18.02.2023 / 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
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
Operating temperature, min.	-25 °C	Operating temperature, max.	70 °C
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	Long-term drift	0
Power consumption, max.	50 mW per channel	Power consumption, typ.	50 mW
Rail	TS 35	Step response time	≤ 5 ms
Temperature coefficient	±0.07 µA x (Δ °C x V supply) @ Tamb < 25 °C , ≤±0.02 µA x (Δ °C x V supply) @ Tamb > 25 °C	Type of connection	Screw connection
Voltage supply	Output loop powered		

Insulation coordination

EMC standards	IEC 61326-1, NE 21	Galvanic isolation	2-way isolator
Insulation voltage	2.5 kV _{eff} / 1 min.	Pollution severity	2
Rated voltage	300 V _{eff}	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 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

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	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

Tender specification sheets

Long specification	Short specification	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
Type ACT20M-2CI-2CO-OLP-S		

Environmental Product Compliance

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

Important note

Product information	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). The passive isolator ACT20M-2CI-2CO-OLP-S offers the same functionality, but has two galvanically isolated channels..
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Technical data

Approvals

Approvals



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

Downloads

Approval/Certificate/Document of Conformity	DNV-GL certificate FM certificate IECEX certificate ATEX certificate Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD, Zuken E3.S
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

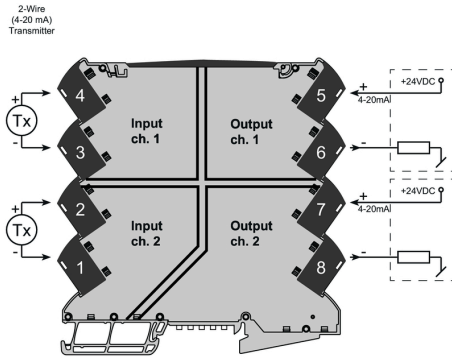
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Drawings

Connection diagram



Dimensional drawing

