

ACT20M-CI-CO-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, 1-channel, Input : 4-20 mA, Output : 4-20 mA
Order No.	1176040000
Type	ACT20M-CI-CO-OLP-S
GTIN (EAN)	4032248970155
Qty.	1 pc(s).

Creation date May 25, 2022 11:20:25 AM CEST

Catalogue status 20.05.2022 / 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	80 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
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

REACH SVHC	Lead 7439-92-1
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Input

Input current	4...20mA	Number of inputs	1
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, @ max 23mA
Number of outputs	1	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 per channel
Power consumption, typ.	50 mW	Rail	TS 35
Step response time	≤ 5 ms	Temperature coefficient	≤±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 1-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-CI-CO-OLP-S		

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 is galvanically isolated. Power is supplied through the output measuring circuit (output loop-powered).

Approvals

Approvals



ROHS	Conform
UL File Number Search	E337701

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Technical data**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	EPLAN, WSCAD, Zuken E3.S
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings

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Connection diagram

