

ACT20M-CI-2CO-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 duplicator/isolator, Input : 0(4)-20 mA, Output : 2 x 0(4) - 20 mA
Order No.	1175990000
Type	ACT20M-CI-2CO-S
GTIN (EAN)	4032248969982
Qty.	1 pc(s).

Creation date 07 February 2022 03:29:18 CET

Catalogue status 03.02.2022 / 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	83.6 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	MTBF	219 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...20 mA	Input resistance, current	70 Ω
Number of inputs	1	Sensor	Current source, Sensor with own supply, 4-wire sensor
Voltage drop, current input	< 1.5 V		

Output

Cut-off frequency (-3 dB)	100 Hz	Load impedance current	< 300 Ω, per channel, @ max 23mA
Number of outputs	2	Output current	0...20 mA, 4...20 mA
Type	active, connected control must be passive		

General data

Accuracy	< 0.05 % of measuring range	Configuration	none
Galvanic isolation	3-way isolator	Power consumption, max.	0.8 W
Power consumption, typ.	0.45 W	Rail	TS 35
Step response time	≤ 7 ms	Temperature coefficient	≤ 0.01 % / °C
Type of connection	Screw connection	Voltage supply	24 V DC ±30 % at terminal or via CH20M rail bus

Insulation coordination

EMC standards	IEC 61326-1, NE 21	Galvanic isolation	3-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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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	Safety standard	UL 61010-1
Ship use	DNV-GL	Standards	ATEX, EN 60079-0, IECEx, IEC 60079-0

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		

Tender specification sheets

Long specification

Short specification

**Standard signal splitter
1-channel signal
splitter in 6.1 mm width
with external power
supply,
to transmit, isolate
and split analogue DC
current signals 0/4 to
20 mA**

**Type
ACT20M-CI-2CO-S**

Important note

Product information

The non-adjustable DC isolating amplifier ACT20M-CI-CO-S isolates analogue standard current signals. An analogue input current signal is linearly converted to an analogue output current signal and is galvanically isolated. The power supply is galvanically isolated from the input and output (3-way isolation) by means of direct wiring or the Weidmüller rail bus.

The non-adjustable DC isolation amplifier ACT20M CI-2CO-S offers the same functionality, but has 2 galvanically isolated outputs (4-way isolation).

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	

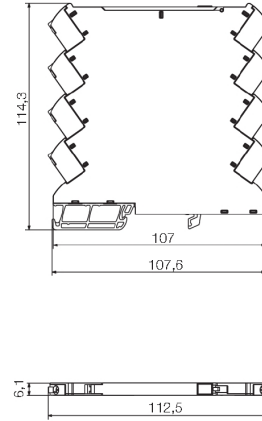
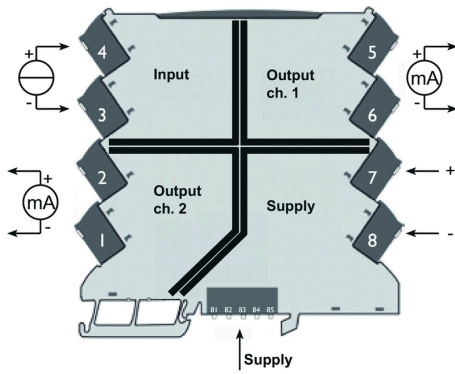
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Drawings

Connection diagram



Power supply via CH20M DIN rail bus