

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 splitter, Signal distributor, 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 items

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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	114.3 mm	Depth (inches)	4.5 inch
Height	112.5 mm	Height (inches)	4.4291 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	83.6 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	219 a
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	2f6dd957-421a-46db-a0c2-cf1609156924

Input

Sensor	Current source, Sensor with own supply, 4-wire sensor	Number inputs	1
Input current	0...20 mA, 4...20 mA	Input resistance, current	70 Ω
Voltage drop, current input	<1.5 V		

Output

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

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General data

Accuracy	<0.05 % of measuring range	Protection degree	IP20
Supply voltage	24 V DC \pm 30 % at terminal or via CH20M rail bus	Step response time	\leq 7 ms
Mounting rail	TS 35	Temperature coefficient	\leq 0.01 % / °C
Nominal power consumption	1.2 VA	Configuration	none
Operating altitude	\leq 2000 m	Power consumption, max.	0.8 W
Power consumption, typ.	0.45 W		

Insulation coordination

EMC standards	IEC 61326-1	Surge voltage category	II
Pollution severity	2	Galvanic isolation	3-way isolator
Insulation voltage	2.5 kVeff /1 min.	Rated voltage	300 Veff

Data for Ex applications (ATEX)

Marking	II 3 G Ex nA IIC T4 Gc	IECEX - gas labelling	Ex nA IIC T4 Gc, Standard: IEC 60079-0-15
Installation location	Device installed in safe area, zone 2		

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	Standards	ATEX, EN 60079-0, IECEX, IEC 60079-0
Ship use	DNV-GL	Safety standard	UL 61010-1

Part description

Product description	<p>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.</p> <p>The non-adjustable DC isolation amplifier ACT20M CI-2CO-S offers the same functionality, but has 2 galvanically isolated outputs (4-way isolation).</p>		
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Classifications

ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

Tender specification sheets

Long specification	Standard signal splitter 1-channel signal splitter in 6.1 mm width with external power supply,	Short specification	Standard signal splitter 1-channel signal splitter in 6.1 mm width with external power supply,
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Creation date 18.02.2026 01:52:18 MEZ

Catalogue status / Drawings

Technical data

to transmit, isolate and split analogue DC current signals 0/4...20 mA
Add-on housing for TS35 rail mounting

Dimensions: L/W/H
114.3/ 6.1/ 112.5 mm
Screw connection /
Nominal cross-section 2.5 mm²

Protection degree: IP 20

Input
0/4...20 mA

Output
2 x 0/4...20 mA

Load resistance <
300 Ohm/ Ausgang

Transmission error <
0,05 % v. E.

Limit frequency 100 Hz

Auxiliary power
24 VDC +/- 30 %

Power loss approx. 0.8 W

Ambient temperature range
-25 °C...+70 °C

Isolation
EN 61010-1, 3-way
isolation up to 2.5 kV AC/
DC of all circuits against
each other

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

Type
ACT20M-CI-2CO-S

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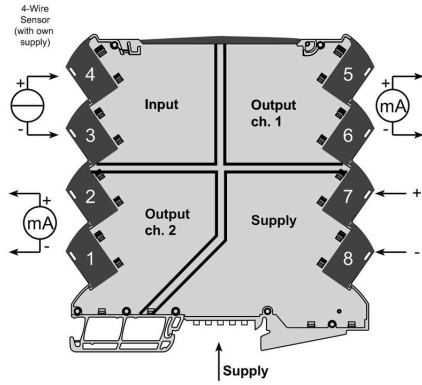
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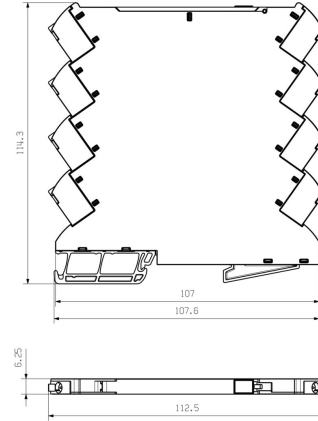
Drawings

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Connection diagram



Dimensional drawing



Additional power supply option via bus

