

## ACT20M-CI-2CO-S

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.	<a href="#">1175990000</a>
Type	ACT20M-CI-2CO-S
GTIN (EAN)	4032248969982
Qty.	1 pc(s).

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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	83.6 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	MTBF	219 Years
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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	Long-term drift	0
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 <sub>eff</sub> / 1 min.	Pollution severity	2
Rated voltage	300 V <sub>eff</sub>	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 <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
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	ECLASS 12.0	27-21-01-20

### Tender specification sheets

Long specification

Short specification

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

**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**

### Environmental Product Compliance

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

### Important note

Product information	<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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**Technical data**

**Approvals**

Approvals



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

**Downloads**

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

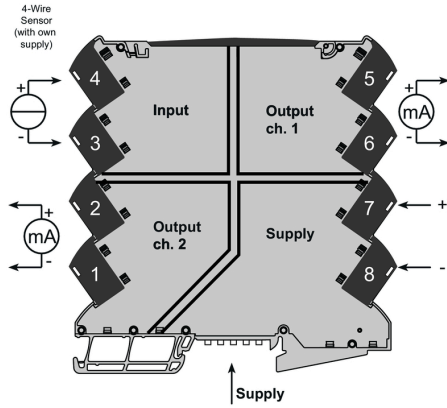
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**Drawings**

**Connection diagram**



**Dimensional drawing**



Power supply via CH20M DIN rail bus