

ACT20M-2CI-2CO-ILP-S

Weidmüller Interfaces GmbH & Co. KG

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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, Input current loop feed, 2-channel, Input : 2 x 0(4) - 20 mA, Output : 2 x 0(4) - 20 mA
Order No.	1176080000
Type	ACT20M-2CI-2CO-ILP-S
GTIN (EAN)	4032248970001
Qty.	1 pc(s).

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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	97 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	699 Years
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Input

Input current	0...20 mA, 4...20mA	Input frequency	100 Hz
Number of inputs	2	Sensor	Current source
Voltage drop, current input	1.25 V + 0.015 V _{out} @25°C		

Output

Cut-off frequency (-3 dB)	100 Hz	Load impedance current	≤600 Ω (channel 1 + 2)
Number of outputs	2	Output current	0...20 mA, 4...20 mA
Status indicator	No	Type	active, connected control must be passive

General data

Accuracy	< 0.1 % of measuring range	Configuration	none
Galvanic isolation	2-way isolator	Long-term drift	0
Power consumption	30 mW per channel	Rail	TS 35
Step response time	≤ 5 ms	Temperature coefficient	≤ 0.01 % / °C
Type of connection	Screw connection	Voltage supply	Loop powered, via 4...20 mA input

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

Isolation
EN 61010-1, 2-way
isolation up to 2.5 kV
AC/DC
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-2CI-2CO-ILP-
S

Short specification

Standard signal passive
isolator
2-channel signal
passive isolator in 6.1
mm width with input
current loop feed,
for transmitting and
isolating analogue DC
current signals from
0/4 to 20 mA

Environmental Product Compliance

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

Important note

Product information	The ACT20M-CI-CO-ILP-S passive isolator isolates standard analogue current signals. An analogue input current signal is linearly converted to an analogue output current signal and is galvanically isolated. Power is supplied through the input measuring circuit (input loop-powered). The passive isolator ACT20M-2CI-2CO-ILP-S offers the same functionality, but has two galvanically isolated channels.
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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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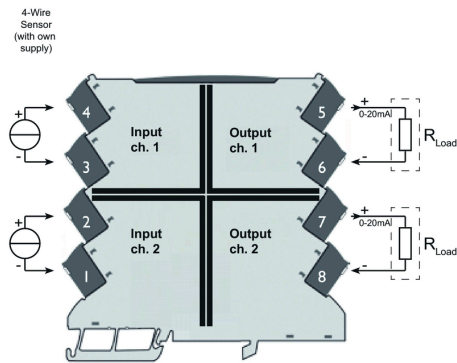
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Drawings

Connection diagram



Dimensional drawing info@weidmueller.com

