

ACT20P-2CI-2CO-12-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Similar to illustration**ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Release levers simplify handling

General ordering data

Version	Signal converter/isolator, HART [®] , Input : 2 x 0(4) - 20 mA, Output : 2 x 4-20 mA
Order No.	7760054117
Type	ACT20P-2CI-2CO-12-S
GTIN (EAN)	6944 169656576
Qty.	1 pc(s).

Creation date December 6, 2022 6:57:25 AM CET

Catalogue status 18.11.2022 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Depth	113.7 mm	Depth (inches)	4.476 inch
Height	117.2 mm	Height (inches)	4.614 inch
Width	12.5 mm	Width (inches)	0.492 inch
Net weight	170 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...60 °C
Humidity	5...95 %, 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	SCIP	2f6dd957-421a-46db-a0c2-cf1609156924
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Input

Input current	0...20 mA, 4...20mA	Input signal	current source
Input voltage	≤ 28 V DC	Number of inputs	2
Voltage drop	≤ 1 V		

Output

Load impedance current	< 300 Ω, per channel	Number of outputs	2
Output current	0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal	Type	active, connected control must be passive

General data

Accuracy	< 0.1 % of end value	Configuration	none
Current consumption	≤60 mA (24V power supply, 20mA output)	Galvanic isolation	3-way isolator, between input/output/supply
Rail	TS 35	Step response time	≤ 0,5 ms
Temperature coefficient	80 ppm/K	Type of connection	Screw connection
Voltage supply	20...30 V DC		

Insulation coordination

EMC standards	EN 61010-1:2011, UL 61010-1, EN 61326-1	Galvanic isolation	3-way isolator, between input/output/supply
Impulse withstand voltage	4 kV (1.2/50 μs)	Insulation voltage	2 kV inputs / outputs / power supply
Pollution severity	2	Surge voltage category	III
Test voltage	300 V		

Data for Ex applications (ATEX)

Marking	II 3 G Ex ec IIC T5 Gc
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2

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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 26	Wire connection cross section AWG, max.	AWG 12

Classifications

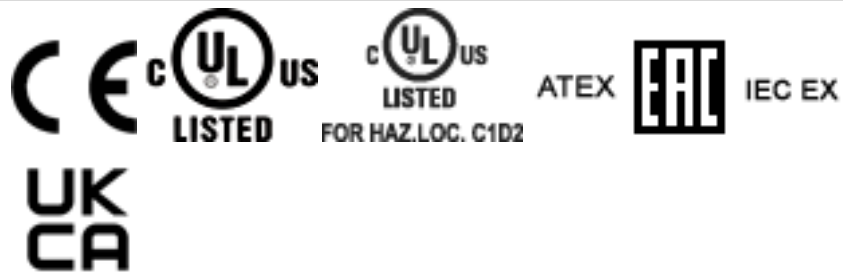
ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-20	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20	ECLASS 12.0	27-21-01-20

Important note

Product information	<p>The dual-channel, non-adjustable DC isolating amplifier ACT20P-2CI-2CO isolates analogue standard current source signals. An analogue input current signal is linearly converted into an analogue output current signal and is galvanically isolated. The power supply is galvanically isolated from the input and output (5-way isolation). Properties</p> <ul style="list-style-type: none"> • HART-compatible for 0.5 - 2.5 kHz • The active or passive mA signal inputs are fully galvanically isolated. • Operating status display on a front panel LED • Galvanic 5-way isolation between input, output and supply.
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Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E366074
Certificate no. (cULusEX)	E338066

Downloads

Approval/Certificate/Document of Conformity	IECEx Certification ATEX Certification UL Certification (hazardous location) UL Certification (US-CAN) 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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3

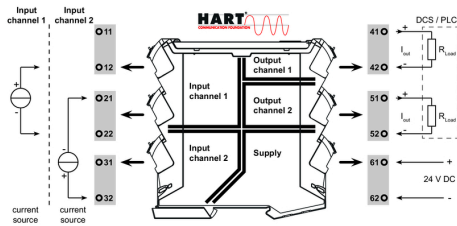
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Drawings

Connection diagram



Dimensioned drawing

