

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 duplicator/isolator, Input : 0(4)-20 mA, Output : 2 x 0(4) - 20 mA, Voltage supply also via CH20M rail bus, Signal distributor, HART®
Order No.	<a href="#">1506220000</a>
Type	ACT20P-CI-2CO-P-S
GTIN (EAN)	4050118314724
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Depth	113.7 mm	Depth (inches)	4.476 inch
Height	127.1 mm	Height (inches)	5.004 inch
Width	12.5 mm	Width (inches)	0.492 inch
Net weight	160 g		

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...60 °C
Humidity at operating temperature	0...95 % (no condensation)	Humidity	5...95 %, no condensation

**Probability of failure**

SIL in compliance with IEC 61508	None
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**Input**

Input current	0...20 mA, 4...20mA	Input signal	HART signal® bidirectional
Number of inputs		Sensor	2-wire transmitter (without own power supply), 3-wire sensor, 4-wire sensor (with own power supply)
	1		
Sensor supply		Voltage drop	ca. 3.8 V @ $R_{Load} = 0 \Omega$ ; ca. 15 V @ $R_{Load} = 600 \Omega$ ; ( $I_{input} = 20 \text{ mA}$ )
	> 17 V DC at 20 mA		

**Output**

Load impedance current	<300 $\Omega$	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

**Output (analogue)**

Output current	0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal
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**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	Voltage supply	20...30 V DC

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**Technical data****Insulation coordination**

EMC standards	EN 61326-1, EN 61000-6-2, EN 61000-6-4	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
Insulation voltage input or output/supply	2 kV inputs / outputs / power supply	Pollution severity	2
Surge voltage category	III	Test voltage	0.3 kV

**Data for Ex applications (ATEX)**

Marking	II 3 G Ex ec IIC T5 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 <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 26	Wire connection cross section AWG, max.	AWG 12

**Classifications**

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ETIM 9.0	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	ECLASS 13.0	27-21-01-20

**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 ACT20P-CI-2CO isolates analogue standard current signals from a power source or from a 2- or 3-wire sensor. An analogue input current signal is converted linearly and doubled to provide two galvanically isolated output current signals. The power supply is galvanically isolated from the input and output (4-way isolation).</p> <p>Properties</p> <ul style="list-style-type: none"> <li>• HART-compatible for 0.5 - 2.5 kHz</li> <li>• The active or passive mA signal inputs are fully galvanically isolated.</li> <li>• Operating status display on a front panel LED</li> <li>• Galvanic 4-way isolation between input, output and supply.</li> </ul>
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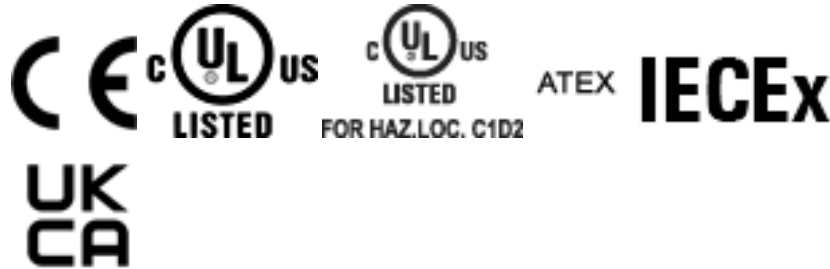
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## Technical data

## Approvals

Approvals



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

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">IECEx Certification</a> <a href="#">ATEX Certification</a> <a href="#">UL Certification (hazardous location)</a> <a href="#">UL Certification (US-CAN)</a> <a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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# Drawings

## Dimensioned drawing

