

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****ACT20P: The flexible solution**

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

**General ordering data**

Version	Signal converter/insulator, Input : 0(4)-20 mA, Output : 0(4)-20 mA, Signal converter/isolator, HART®
Order No.	<a href="#">2489680000</a>
Type	ACT20P-CI-CO-P
GTIN (EAN)	4050118535150
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	120 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	1	Sensor	2-wire transmitter (with- out own power supply), 3- wire sensor, 4- wire sensor (with own power supply)
Sensor supply	> 17 V DC at 20 mA	Voltage drop	≤ 1 V

**Output**

Load impedance current	≤ 550 Ω	Number of outputs	1
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 (digital)**

Max. switching frequency at rated load	0 Hz
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**General data**

Accuracy	<0.1 % of end value	Configuration	none
Current consumption	≤60 mA (24V power sup- ply, 20mA output)	Galvanic isolation	3-way isolator, between in- put / output / supply
Protection degree	IP20	Rail	TS 35
Step response time	≤ 0,5 ms	Temperature coefficient	80 ppm/K
Type of signal forwarding according to HART®	unchanged	Voltage supply	20...30 V DC

**Insulation coordination**

EMC standards	EN 61326-1, EN 61000-6-2, EN 61000-6-4	Galvanic isolation	3-way isolator, between in- put / 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	0.3 kV		

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## Technical data

### Data for Ex applications (ATEX)

Marking	II 3 G Ex ec IIC T5 Gc
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### Connection data

Type of connection	PUSH IN	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 14
Wire cross-section, solid, min.	0.2 mm <sup>2</sup>	Wire cross-section, solid, max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm <sup>2</sup>

### 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
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl

### Important note

Product information	<p>The non-adjustable DC isolating amplifier ACT20P-CI-CO isolates analogue standard current signals from a power source or from a 2- or 3-wire sensor. 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 (3-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 3-way isolation between input, output and supply.</li> </ul>
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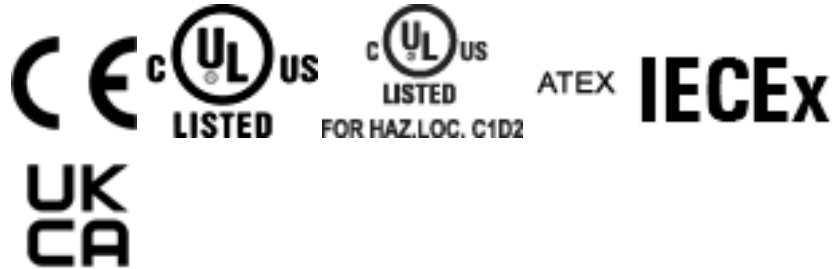
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## Technical data

## Approvals

Approvals



Approvals	CULUS;
ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate no. (cULus)	E469563
Certificate no. (cULusEX)	E338066

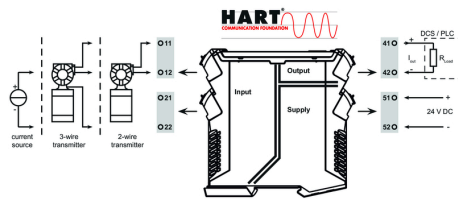
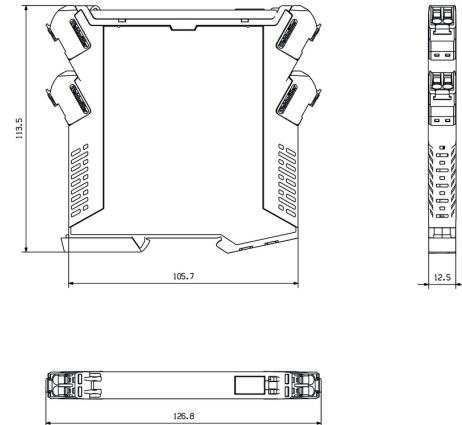
## Downloads

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**
**Connection diagram**

**Dimensioned drawing**

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technology**

