

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

Creation date January 27, 2023 1:33:11 PM CET

Catalogue status 24.01.2023 / We reserve the right to make technical changes.

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**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
Operating temperature, min.	-20 °C	Operating temperature, max.	60 °C
Humidity	5...95 %, no condensation		

**Probability of failure**

SIL in compliance with IEC 61508	None
----------------------------------	------

**Input**

Input current	0...20 mA, 4...20mA	Input signal	2-/3-wire transmitter, HART® digital signal
Number of inputs	1	Sensor supply	> 17 V DC at 20 mA, max 30 V @ open circuit, max 50 mA @ short-circuit
Voltage drop	ca. 3.8 V @ $R_{Load} = 0 \Omega$ ; ca. 15 V @ $R_{Load} = 600 \Omega$ ; ( $I_{input} = 20 \text{ mA}$ )		

**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

**General data**

Accuracy	< 0.1 % of end value	Configuration	none
Current consumption	$\leq 60 \text{ mA}$ (24V power supply, 20mA output)	Galvanic isolation	3-way isolator, between input/output/supply
Long-term drift	0	Rail	TS 35
Step response time	$\leq 0,5 \text{ ms}$	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 $\mu\text{s}$ )	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	300 V

**Data for Ex applications (ATEX)**

Marking	II 3 G Ex ec IIC T5 Gc
---------	------------------------

Creation date January 27, 2023 1:33:11 PM CET

## ACT20P-CI-2CO-P-S

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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 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

### 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>
---------------------	---

### Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
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>

Creation date January 27, 2023 1:33:11 PM CET

Catalogue status 24.01.2023 / We reserve the right to make technical changes.

3

**ACT20P-CI-2CO-P-S**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**Drawings**

**Dimensioned drawing**

