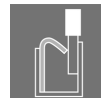


**ACT20P-2CI-2CO-12-P****Weidmüller Interface GmbH & Co. KG**

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 : 2 x 0(4) - 20 mA, Output : 2 x 4-20 mA, Signal converter/isolator, HART® |
| Order No.  | <a href="#">2489730000</a>   |
| Type       | ACT20P-2CI-2CO-12-P  |
| GTIN (EAN) | 4050118535174  |
| 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 | 130 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 |
|----------------------------------|------|

**Input**

|               |                     |                  |                            |
|---------------|---------------------|------------------|----------------------------|
| Input current | 0...20 mA, 4...20mA | Input signal     | HART signal® bidirectional |
| 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 |

**Output (analogue)**

|                |  |
|----------------|--|
| Output current | 0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA), HART® digital signal |
|----------------|--|

**General data**

|                         |   |                    |   |
|-------------------------|---|--------------------|---|
| Accuracy                | <0.1 % of end value                     | Configuration      | none  |
| Current consumption     | ≤100 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                                |

**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              | 0.3 kV                                  |                        |   |

**Data for Ex applications (ATEX)**

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

Creation date May 5, 2024 4:08:12 PM CEST

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## Technical data

### 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

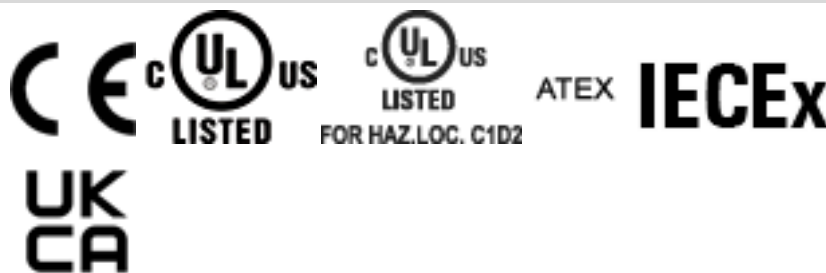
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002653    | ETIM 7.0    | EC002653    |
| ETIM 8.0    | EC002653    | ETIM 9.0    | EC002653    |
| ECLASS 9.0  | 27-21-01-20 | ECLASS 9.1  | 27-21-01-20 |
| ECLASS 10.0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

### Approvals

Approvals



|                           |            |
|---------------------------|------------|
| Approvals                 | CULUS;     |
| 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><br><a href="#">ATEX Certification</a><br><a href="#">UL Certification (hazardous location)</a><br><a href="#">UL Certification (US-CAN)</a><br><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>   |

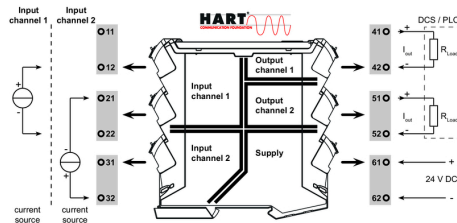
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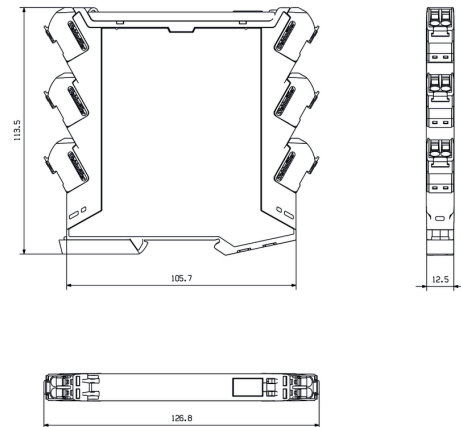
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## Drawings

### Connection diagram



### Dimensioned drawing



### Similar to illustration



### PUSH IN technology

