

**ACT20P-CI-VO-S****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 : 0-10 V, Signal converter/isolator |
| Order No.  | <a href="#">1540010000</a>   |
| Type       | ACT20P-CI-VO-S   |
| GTIN (EAN) | 4050118344745  |
| Qty.       | 1 pc(s).   |

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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 | 147 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 | 2-/3-wire transmitter, Current source   |
| Number of inputs | 1                   | Sensor       | 2-wire transmitter (without 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 voltage, note   | 0...10 V (if input: 0...20 mA), 2...10 V (if input: 4...20 mA) | Type              | active, connected control must be passive |
| load impedance voltage | ≥ 600 kΩ   |                   |   |

**General data**

|                         |  |                    |   |
|-------------------------|--|--------------------|---|
| Accuracy                | ±0,1 % FSR max., 0,05 % FSR typ.       | 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                                |

**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 (Input /Output), 1 min, 50 Hz          |
| 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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## 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        | 0.6 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

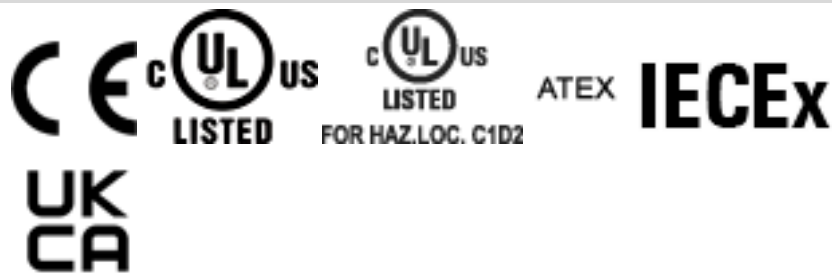
|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 2f6dd957-421a-46db-a0c2-cf1609156924 |

### Important note

|                     |  |
|---------------------|--|
| Product information | <p>The fixed DC repeater ACT20P-CI-VO isolates analogue standard current signals from a power source or from a 2- or 3-wire sensor. An analogue input current signal is converted linear and galvanic isolated into an analogue output voltage signal. The power supply is galvanically isolated from input and output (3-way isolation).</p> <p>Features</p> <ul style="list-style-type: none"> <li>• The active or passive mA current signal inputs are completely electrically isolated.</li> <li>• Front LED indicates operation status.</li> <li>• 3-way galvanic isolation between input, output and power 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><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>   |

Creation date May 16, 2024 3:38:55 AM CEST

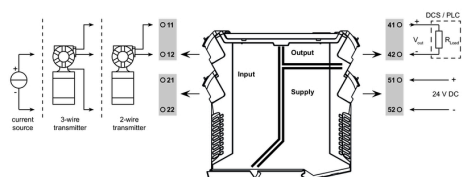
Catalogue status 04.05.2024 / We reserve the right to make technical changes.

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**Drawings**
**Connection diagram**

**Dimensioned drawing**
