

**ACT20P**  
**ACT20P-CI1-CO-OLP**

**Weidmüller Interface GmbH & Co. KG**  
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[www.weidmueller.com](http://www.weidmueller.com)

**Similar to illustration****ACT20P: The flexible solution**

- Precise and highly functional signal converters
- Simple configuration via display (Pro DCDC II), FDT/DTM software or DIP switch
- Release levers simplify handling
- More space in the control cabinet, from 12.5 mm wide for two channels

**General ordering data**

|            |                                                                                           |
|------------|-------------------------------------------------------------------------------------------|
| Type       | ACT20P-CI1-CO-OLP                                                                         |
| Order No.  | <a href="#">7760054118</a>                                                                |
| Version    | Signal converter/isolator, Output current loop powered, Input : 0-20 mA, Output : 4-20 mA |
| GTIN (EAN) | 6944169656583                                                                             |
| Qty.       | 1 pc(s).                                                                                  |

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

|        |          |                 |            |
|--------|----------|-----------------|------------|
| Width  | 12.5 mm  | Width (inches)  | 0.492 inch |
| Height | 117.2 mm | Height (inches) | 4.614 inch |
| Depth  | 114 mm   | Depth (inches)  | 4.488 inch |
| Weight | 126 g    | Net weight      | 100 g      |

**Temperatures**

|                             |                           |                             |                |
|-----------------------------|---------------------------|-----------------------------|----------------|
| Humidity                    | 5...95 %, no condensation | Operating temperature, max. | 60 °C          |
| Operating temperature, min. | -20 °C                    | Operating temperature       | -20 °C...60 °C |
| Ambient temperature         | -20 °C...+60 °C           | Storage temperature         |                |

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**Input**

|                  |           |                             |                |
|------------------|-----------|-----------------------------|----------------|
| Number of inputs | 1         | Sensor                      | Current source |
| Input current    | 0...20 mA | Voltage drop, current input | < 3 V          |

**Output**

|                        |         |                |                         |
|------------------------|---------|----------------|-------------------------|
| Number of outputs      | 1       | Output current | 4...20 mA, loop-powered |
| load impedance current | ≤ 600 Ω |                |                         |

**General data**

|                    |                                                        |                         |             |
|--------------------|--------------------------------------------------------|-------------------------|-------------|
| Accuracy           | < 0.1 % of end value                                   | Configuration           | none        |
| Galvanic isolation | 2-way isolator                                         | Rail                    | TS 35       |
| Step response time | ≤ 1 ms                                                 | Temperature coefficient | ≤ 100 ppm/K |
| Voltage supply     | via output current loop,<br>min. 12 V DC/ max. 30 V DC |                         |             |

**Insulation coordination**

|                           |                                                           |                    |                       |
|---------------------------|-----------------------------------------------------------|--------------------|-----------------------|
| EMC standards             | EN 61010-1:2011, UL 61010-1, IEC 61000-6-2, IEC 61000-6-4 | Galvanic isolation | 2-way isolator        |
| Impulse withstand voltage | 4 kV (1.2/50 µs)                                          | Insulation voltage | 2 kV inputs / outputs |
| Pollution severity        | 2                                                         | Rated voltage      | 300 V                 |
| Surge voltage category    | III                                                       |                    |                       |

**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 30              | Wire connection cross section AWG, max. | AWG 14              |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 6.0   | EC002475    | eClass 6.2 | 27-21-01-07 |
| eClass 9.0 | 27-21-01-23 | eClass 9.1 | 27-21-01-23 |

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## Technical data

### Product information

#### Product information

The ACT20P-CIX-CO-OLP-S single-channel fixed passive isolator isolates analogue standard current source signals. An analogue input current signal is converted linear and galvanic isolated into an analogue output current signal. The device is powered via the output current loop.

#### Features

- 2-way galvanic isolation between input and output.

### Approvals

#### Approvals



### Downloads

#### Approval/Certificate/Document of Conformity

[Declaration of Conformity](#)

#### Engineering Data

[EPLAN](#)

#### Engineering Data

[STEP](#)

#### User Documentation

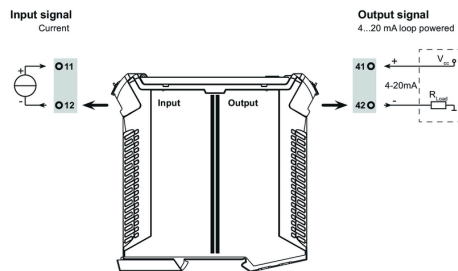
[Instruction sheet](#)

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# Drawings

## Block diagram



## Dimensioned drawing

