

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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, Voltage supply also via CH20M rail bus, Signal converter/insulator |
| Order No. | 1537750000 |
| Type | ACT20P-CI-VO-P-S |
| GTIN (EAN) | 4050118342147 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|----------|-----------------|------------|
| Depth | 113.7 mm | Depth (inches) | 4.476 inch |
| Height | 119.2 mm | Height (inches) | 4.693 inch |
| Width | 12.5 mm | Width (inches) | 0.492 inch |
| Net weight | 140 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 | | |

Output (digital)

| | | | |
|----------------------------|-------|----------------------------|-----|
| Max. switching voltage, AC | 0 V | Max. switching voltage, DC | 0 V |
| Rated switching current | 0.1 A | | |

General data

| | | | |
|---------------------|--|-------------------------|---|
| Accuracy | <0.1 % of end value | Configuration | none |
| Current consumption | ≤60 mA (24V power supply, 20mA output) | Galvanic isolation | 3-way isolator, between input/output/supply |
| Protection degree | IP20 | 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 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 |
|---------|------------------------|

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 ² |
| Clamping range, min. | 0.5 mm ² | Clamping range, max. | 2.5 mm ² |
| 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 |
| ECLASS 14.0 | 27-21-01-20 | | |

Environmental Product Compliance

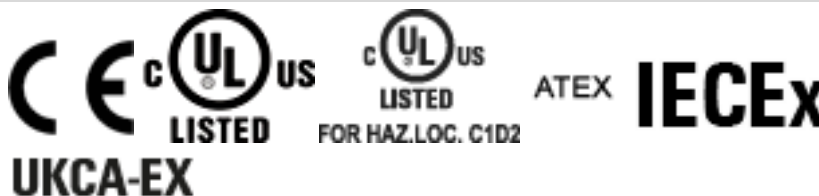
| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 2f6dd957-421a-46db-a0c2-cf1609156924 |

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">• The active or passive mA current signal inputs are completely electrically isolated.• Front LED indicates operation status.• 3-way galvanic isolation between input, output and power supply |
|---------------------|--|

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E469563 |
| Certificate no. (cULusEX) | E338066 |

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Technical data

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | IECEX Certification |
| | ATEX Certification |
| | UL Certification (hazardous location) |
| | UL Certification (US-CAN) |
| | Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

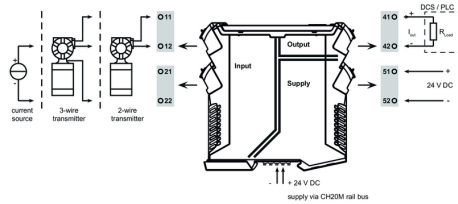
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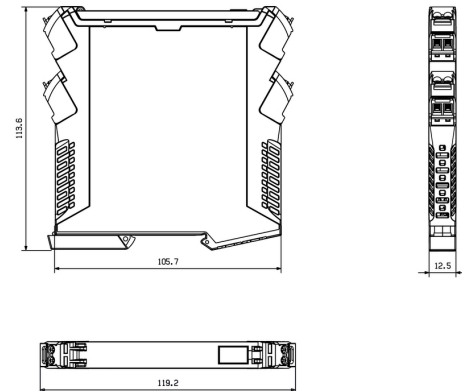
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Drawings

Connection diagram



Dimensioned drawing



Additional power supply option via bus

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www.weidmueller.com**Accessories****Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6.6/11 BHZ 5.00/02 | Version |
| Order No. | 1082490000 | ESG, Device markers x 11 mm, PA 66, Colour: white |
| GTIN (EAN) | 4032248845330 | |
| Qty. | 200 pc(s). | |

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 8/13.5/43.3 SAI AU | Version |
| Order No. | 1912130000 | ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent |
| GTIN (EAN) | 4032248541164 | |
| Qty. | 5 pc(s). | |