

ACT20P-2CI-2CO-ILP-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 | Passive isolator, Input : 2 x 0(4) - 20 mA, (loop powered), Output : 2 x 0(4) - 20 mA, Input current loop feed |
| Order No. | 7760054124 |
| Type | ACT20P-2CI-2CO-ILP-S |
| GTIN (EAN) | 6944 169656644 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|------------|----------|-----------------|-------------|
| Depth | 114 mm | Depth (inches) | 4.4882 inch |
| Height | 117.2 mm | Height (inches) | 4.6142 inch |
| Width | 12.5 mm | Width (inches) | 0.4921 inch |
| Net weight | 110 g | | |

Temperatures

| | | | |
|-----------------------------------|----------------------------|-----------------------|---------------------------|
| Storage temperature | | 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 |
|----------------------------------|------|

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 |

Input

| | | | |
|---------------|--|-----------------------------|---------------------------|
| Sensor | 4- wire sensor (with own power supply), Current source | Number inputs | 2 |
| Input current | 0(4)...20 mA current loop | Voltage drop, current input | ≤ 3.5 V @ I input = 20 mA |

Output

| | | | |
|-------------------|---|------------------------|--|
| Number of outputs | 2 | Load impedance current | ≤ 600 Ω |
| Type | active, connected control must be passive | Output current | 0...20 mA (if input: 0...20 mA), 4...20 mA (if input: 4...20 mA) |

General data

| | | | |
|---------------------------|-----------------------------------|-------------------------|-------------|
| Accuracy | <0.1 % of end value | Protection degree | IP20 |
| Supply voltage | Loop powered, via 4...20 mA input | Step response time | ≤ 1 ms |
| Mounting rail | TS 35 | Temperature coefficient | ≤ 100 ppm/K |
| Nominal power consumption | 2 VA | Configuration | none |
| Operating altitude | ≤ 2000 m | | |

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Insulation coordination

| | | | |
|---------------------------|------------------|--------------------|--|
| Impulse withstand voltage | 4 kV (1.2/50 µs) | EMC standards | EN 61326-1, EN 61000-6-2, EN 61000-6-4 |
| Surge voltage category | III | Pollution severity | 2 |
| Galvanic isolation | 2-way isolator | Insulation voltage | 2 kV inputs / outputs |
| Rated voltage | 300 V | | |

Data for Ex applications (ATEX)

| | | | |
|---------|------------------------|-----------------------|-----------------|
| Marking | II 3 G Ex ec IIC T6 Gc | IECEx - gas labelling | Ex ec IIC T6 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 |

Part description

| | |
|---------------------|--|
| Product description | <p>The ACT20P-2CI-2CO-ILP-S (dual channel) fixed passive isolators isolate 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 input current loop.</p> <p>Features</p> <ul style="list-style-type: none"> Galvanic 4-way isolation (dual-channel device) between all inputs and outputs. |
|---------------------|--|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002653 | ETIM 9.0 | EC002653 |
| ETIM 10.0 | EC002653 | ECLASS 14.0 | 27-21-01-20 |
| ECLASS 15.0 | 27-21-01-20 | | |

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Drawings

Connection diagram



Dimensioned drawing

