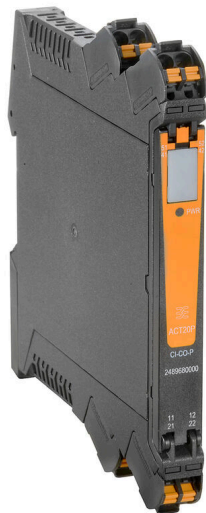


## ACT20P-TCI-AO-P

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

### Product image, Similar to illustration



ACT20P: The flexible solution

- Precise and highly functional signal converters
- Release levers simplify handling

### General ordering data

|            |                                                                               |
|------------|-------------------------------------------------------------------------------|
| Version    | Temperature converter, Input : Temperature, thermocouple, Output : 0(4)-20 mA |
| Order No.  | <a href="#">7760054184</a>                                                    |
| Type       | ACT20P-TCI-AO-P                                                               |
| GTIN (EAN) | 4064675044581                                                                 |
| Qty.       | 1 items                                                                       |

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## Technical data

## Approvals

Approvals



## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 115 g |
|------------|-------|

## Temperatures

|                     |                           |                       |                |
|---------------------|---------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C            | Operating temperature | -20 °C...60 °C |
| Humidity            | 5...95 %, no condensation |                       |                |

## Environmental Product Compliance

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| RoHS Compliance Status               | Compliant with exemption              |
| RoHS Exemption (if applicable/known) | 7a, 7cl                               |
| REACH SVHC                           | Lead 7439-92-1                        |
| SCIP                                 | 2f6dd957-42 1a-46db-a0c2-cf1609156924 |

## Input

|                         |                                                                                                                                                                                                                           |               |   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---|
| Sensor                  | Thermocouple Type<br>T,E,J,K,N,R,S,B                                                                                                                                                                                      | Number inputs | 1 |
| Temperature input range | Configurable, T: (-200...+400 °C), E: (-100...+1000 °C), J: (-100...+1200 °C), K: (-180...+1372 °C), N: (-180...+1300 °C), R: (-50...+1760 °C), S: (-50...+1760 °C), B: +100...+1820 °C, min. measurement range 50°C (TC) |               |   |

## Output

|                      |                          |                        |                                           |
|----------------------|--------------------------|------------------------|-------------------------------------------|
| Number of outputs    | 1                        | Load impedance current | ≤ 550 Ω                                   |
| Wire break detection | Yes, Output value: 22 mA | Type                   | active, connected control must be passive |
| Output current       | 0(4)...20 mA             |                        |                                           |

## General data

|                     |                           |                    |                                                                                                                                   |
|---------------------|---------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Accuracy            | 0.5°C / 0.1% of end value | Protection degree  | IP20                                                                                                                              |
| Supply voltage      | 24 V DC ± 20 %            | Step response time | ≤ 1s                                                                                                                              |
| Current consumption | <50 mA @ IOU = 20 mA      | Mounting rail      | TS 35                                                                                                                             |
| Power consumption   | max. 1.2 W                | Configuration      | With free software ACT20P TOOL PACK, Requires configuration adapter 8978580000 CBX200 USB, + 2907490000 ADAPTER CBX200 - MINI USB |
| Operating altitude  | ≤ 2000 m                  |                    |                                                                                                                                   |

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## Technical data

### Insulation coordination

|                           |                                      |                    |                |
|---------------------------|--------------------------------------|--------------------|----------------|
| Impulse withstand voltage | 4 kV (1.2/50 µs)                     | EMC standards      | EN 61326-1     |
| Test voltage              | 0.3 kV                               | Galvanic isolation | 3-way isolator |
| Insulation voltage        | 2 kV inputs / outputs / power supply | Rated voltage      | 300 V          |

### Connection data

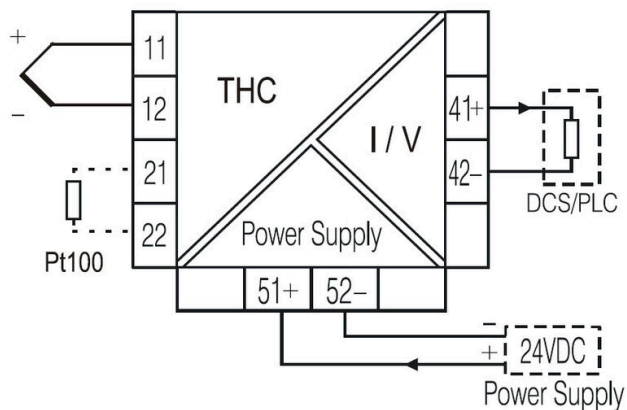
|                                         |                     |                                         |                     |
|-----------------------------------------|---------------------|-----------------------------------------|---------------------|
| Type of connection                      | PUSH IN             | 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

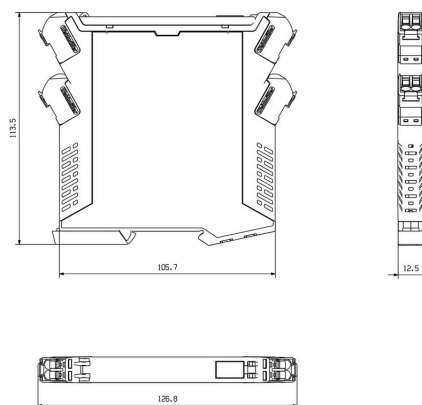
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002919    | ETIM 9.0    | EC002919    |
| ETIM 10.0   | EC002919    | ECLASS 14.0 | 27-21-01-29 |
| ECLASS 15.0 | 27-21-01-29 |             |             |

## Drawings

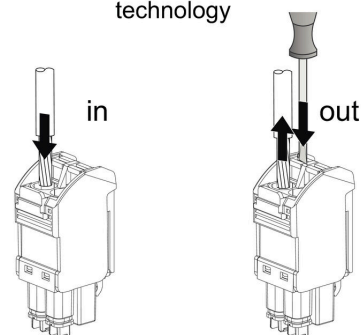
### Connection diagram



### Dimensioned drawing



### PUSH IN technology



## ACT20P-TCI-AO-P

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

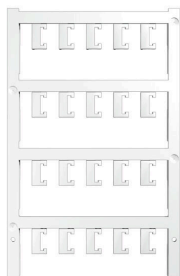
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## Accessories

### 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 6.6/20 BHZ 5.00/04     | Version                                                              |
| Order No.  | <a href="#">1082540000</a> | ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable         |
| GTIN (EAN) | 4032248845439              |                                                                      |
| Qty.       | 200 ST                     |                                                                      |
| Type       | ESG 8/13.5/43.3 SAI AU     | Version                                                              |
| Order No.  | <a href="#">1912130000</a> | ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent, pluggable |
| GTIN (EAN) | 4032248541164              |                                                                      |
| Qty.       | 5 ST                       |                                                                      |

### Configuration interfaces



### General ordering data

|            |                            |         |
|------------|----------------------------|---------|
| Type       | CBX200 USB                 | Version |
| Order No.  | <a href="#">8978580000</a> |         |
| GTIN (EAN) | 4032248813759              |         |
| Qty.       | 1 ST                       |         |
| Type       | ADAPTER CBX200 - MINI U... | Version |
| Order No.  | <a href="#">2907490000</a> |         |
| GTIN (EAN) | 4099986188617              |         |
| Qty.       | 1 ST                       |         |