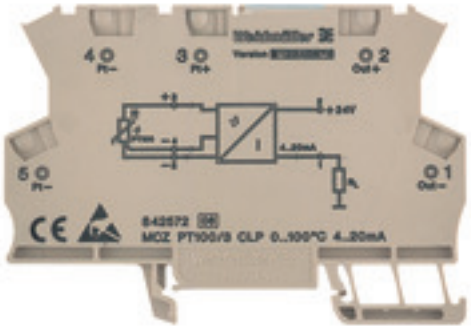
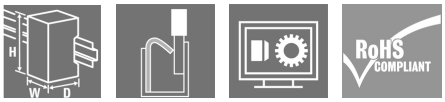
# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Product image, Similar to illustration




### MCZ: The smallest solution

- The smallest analogue signal converter in terminal block format on the market
- Space-saving conversion of analogue signals in the control cabinet thanks to the slim, 6 mm wide module width
- Simple wiring with plug-in cross-connectors

### General ordering data

| | |
|---|---|
| Version | Temperature converter, 2-/3-wire connection technology, Output current loop powered, Tension-clamp connection, Output : 4-20 mA |
| Order No. | 8604420000 |
| Type | MCZ PT100/3 CLP 0...150C |
| GTIN (EAN) | 4032248264568 |
| Qty. | 10 pc(s). |

# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 63.2 mm | Depth (inches) | 2.488 inch |
| Width | 6 mm | Width (inches) | 0.236 inch |
| Length | 91 mm | Length (inches) | 3.583 inch |
| Net weight | 27.3 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...85 °C | Operating temperature | -25 °C...50 °C |

### Probability of failure

| | | | |
|---|---|---|---|
| SIL in compliance with IEC 61508 | None | MTTF | 1,068 a |

### Input

| | | | |
|---|---|---|---|
| Number of inputs | 1 | Sensor | PT100 (3 wire) |
| Sensor supply | 0.8 mA / 9...30 V DC | Temperature input range | 0...150 °C |

### Output

| | | | |
|---|---|---|---|
| Load impedance current | ≤ 600 Ω | Number of outputs | 1 |
| Output current | 4...20 mA (current loop) at 9...30V DC | | |

### General data

| | | | |
|---|---|---|---|
| Accuracy | Typ.: 0.2 %, máx. 0.5 % v. FSR | Configuration | none |
| Galvanic isolation | Without isolation | Linearity | Yes |
| Long-term drift | 0 | Rail | TS 35 |
| Step response time | 10 ms | Temperature coefficient | max. ± 250 ppm/K |
| Voltage supply | Output loop powered, max. 30 V/ min. 9 V + (20 mA x RL) | | |

### Insulation coordination

| | | | |
|---|---|---|---|
| EMC standards | EN 61000-6 | Galvanic isolation | Without isolation |
| Pollution severity | 2 | Rated voltage | 50 V |
| Surge voltage category | I | | |

# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Technical data

### Connection data

| | | | |
|---|---|---|---|
| Type of connection | Tension-clamp connection | Clamping range, rated connection | 1.5 mm² |
| Clamping range, min. | 0.5 mm² | Clamping range, max. | 1.5 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 16 |
| Wire cross-section, solid, min. | 0.5 mm² | Wire cross-section, solid, max. | 1.5 mm² |
| Wire cross-section, solid, min. (AWG) | AWG 26 | Wire cross-section, solid, max. (AWG) | AWG 16 |
| Wire connection cross section, finely stranded, min. | 0.5 mm² | Wire connection cross section, finely stranded, max. | 1.5 mm² |
| Wire cross-section, finely stranded, min. (AWG) | AWG 26 | Wire cross-section, finely stranded, max. (AWG) | AWG 16 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm² |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC002919 | ETIM 7.0 | EC002919 |
| ETIM 8.0 | EC002919 | ETIM 9.0 | EC002919 |
| ECLASS 9.0 | 27-21-01-29 | ECLASS 9.1 | 27-21-01-29 |
| ECLASS 10.0 | 27-21-01-29 | ECLASS 11.0 | 27-21-01-29 |
| ECLASS 12.0 | 27-21-01-29 | ECLASS 13.0 | 27-21-01-29 |

# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Technical data

### Tender specification sheets

| | |
|---|---|
| Long specification | **PT100 temperature measuring transformer, output-loop powered, 3-wire connection technology**<br>RTD measuring transformer in 6 mm width, 4...20 mA output-loop powered<br>without electrical isolation, for transmitting PT100 2-/3-wire signals.<br>Input temperature range **0...+150 °C.**<br><br>Add-on housing for TS35 rail mounting<br>Dimensions: L/W/H 91/ 6/ 63.2 mm<br>Tension-clamp connection / Nominal cross-section 1.5 $mm^2$<br>Protection degree: IP 20<br>Input PT100, 2-/3-wire-Output 4...20 mALoad resistance Transmission error Auxiliary power via 4...20 mA current loopAmbient temperature range 0°C...+50 °C< 0,2 % v. E.<br>Isolation no electrical isolationApprovals cURus, CSA<br><br>**TypeMCZ PT100/3 CLP 0...150C** |
| Short specification | **PT100 temperature measuring transformer, output-loop powered, 3-wire connection technology**<br>**RTD measuring transformer in 6 mm width, 4...20 mA output-loop powered**<br>**without electrical isolation, for transmitting PT100 2-/3-wire signals.**<br>**Input temperature range 0...+150 °C.** |

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | c2a21576-d875-4548-ae68-5e7f85ddf0c7 |

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E141197 |

Creation date May 1, 2024 3:51:40 PM CEST

# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Technical data

### Downloads

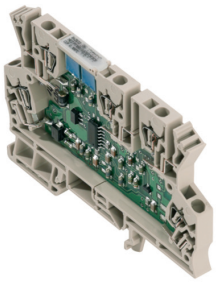
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Application notes – Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | Zuken E3.S |
| User Documentation | Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

# MCZ PT100/3 CLP 0...150C

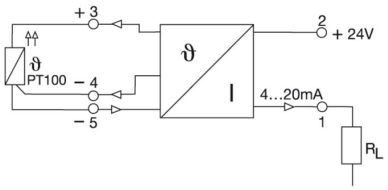
**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

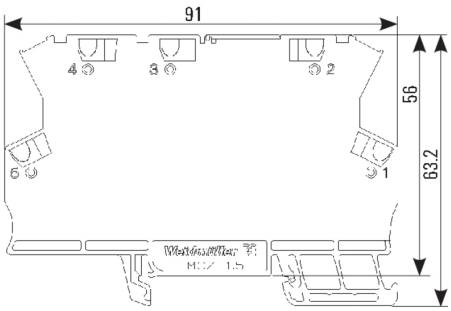
www.weidmueller.com

## Drawings



### Connection diagram




dimensions

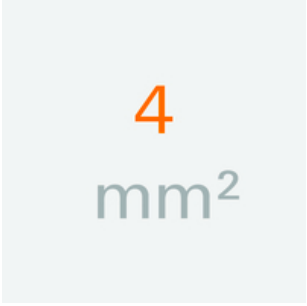
# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Accessories

### 4 mm²




The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

#### General ordering data

| | | |
|---|---|---|
| Type | ZQV 4N/2 GE | Version |
| Order No. | 1758250000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169795 | |
| Qty. | 60 pc(s). | |

| | | |
|---|---|---|
| Type | ZQV 4N/4 GE | Version |
| Order No. | 1762620000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169771 | |
| Qty. | 60 pc(s). | |

| | | |
|---|---|---|
| Type | ZQV 4N/3 GE | Version |
| Order No. | 1762630000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169788 | |
| Qty. | 60 pc(s). | |

### Blank

WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.
- Can be fitted in strips or individually
- Markers in proven MultiCard format

**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 | WS 8/6 PLUS MC NE WS | Version |
| Order No. | 1951880000 | WS, Terminal marker, 8 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |
| GTIN (EAN) | 4032248632114 | white |
| Qty. | 600 pc(s). | |

# MCZ PT100/3 CLP 0...150C

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

www.weidmueller.com

## Accessories

### SAK-Series

Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

#### General ordering data

| | | |
|---|---|---|
| Type | EW 35 | Version |
| Order No. | 0383560000 | End bracket, Wemid, beige, Rail: TS 35, when screwed in |
| GTIN (EAN) | 4008190181314 | |
| Qty. | 50 pc(s). | |

### AP MCZ 1.5 - End plate

Open miniature housing in modular terminal format with five tension clamp connections. A transparent hinged top plate can be used for labelling and provides access to potentiometer and status displays. Plug-in cross-connectors can be used to interconnect the three top connections. A cover plate for closing off the housing is also available.

#### General ordering data

| | | |
|---|---|---|
| Type | AP MCZ1.5 1674 | Version |
| Order No. | 8389030000 | Small housing, OMNIMATE Housing - TERMINALBOX grey-beige, End |
| GTIN (EAN) | 4008190386849 | plate, Width: 1.5 mm |
| Qty. | 50 pc(s). | |