

**TOP 24VDC/48VDC 0,5A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

- 1 NO contact (Transistor)
- Ensures wear- and maintenance-free potential separation in compact terminal block format
- Suitable accessories from the cross-connection to the marker
- Integrated protective circuit for inputs and outputs

**General ordering data**

|            |                                                                                                                                                   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | TERMOPTO, Solid-state relay, Rated control voltage: 24 V DC $\pm 20\%$ , Rated switching voltage: 5...48 V DC, Continuous current: 0.5 A, PUSH IN |
| Order No.  | <a href="#">8950980000</a>                                                                                                                        |
| Type       | TOP 24VDC/48VDC 0,5A                                                                                                                              |
| GTIN (EAN) | 4032248741779                                                                                                                                     |
| Qty.       | 10 pièce(s)                                                                                                                                       |

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## Caractéristiques techniques

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 55 mm   | Depth (inches)  | 2,165 inch |
| Height     | 79,4 mm | Height (inches) | 3,126 inch |
| Width      | 6,1 mm  | Width (inches)  | 0,24 inch  |
| Net weight | 19,6 g  |                 |            |

## Temperatures

|                     |                                                                         |                       |                |
|---------------------|-------------------------------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C                                                          | Operating temperature | -20 °C...60 °C |
| Humidity            | 5-95% relative humidity, T <sub>u</sub><br>= 40°C, without condensation |                       |                |

## Probability of failure

|      |         |
|------|---------|
| MTTF | 2 500 a |
|------|---------|

## Control side

|                       |                                       |                         |           |
|-----------------------|---------------------------------------|-------------------------|-----------|
| Rated control voltage | 24 V DC $\pm 20\%$                    | Nominal control current | 7 mA DC   |
| Power rating          | $\leq 170$ mW                         | Status indicator        | Green LED |
| Protective circuit    | Varistor, Reverse polarity protection | Input frequency         | 200 Hz    |

## Load side

|                                               |                         |                           |                           |
|-----------------------------------------------|-------------------------|---------------------------|---------------------------|
| Rated switching voltage                       | 5...48 V DC             | Continuous current        | 0.5 A (DC1)               |
| Rated switching current                       | 500 mA                  | Load category             | DC1                       |
| Max. switching voltage, DC                    | 48 V                    | Switch-on delay           | $< 20\ \mu\text{s}$       |
| Switch-off delay                              | $\leq 600\ \mu\text{s}$ | Voltage drop at max. load | $< 1\ \text{V}$           |
| Leakage current                               | $< 10\ \mu\text{A}$     | Short-circuit-proof       | No                        |
| Protective circuit, load side                 | Free-wheeling diode     | Contact type              | 1 NO contact (Transistor) |
| max. switching frequency (DC control voltage) | 200 Hz                  |                           |                           |

## General data

|                                    |                          |         |
|------------------------------------|--------------------------|---------|
| Rail                               | TS 35                    |         |
| Test button available              | No                       |         |
| Colour                             | black                    |         |
| UL94 flammability rating component | Component                | Housing |
|                                    | UL94 flammability rating | V-0     |

## Insulation coordination

|                                                  |                                |                                                               |                              |
|--------------------------------------------------|--------------------------------|---------------------------------------------------------------|------------------------------|
| Rated voltage                                    | 300 V                          | Pollution severity                                            | 2                            |
| Surge voltage category                           | III                            | Clearance and creepage distances for control side - load side | $> 3\ \text{mm}$             |
| Dielectric strength for control side - load side | 1.2 kV <sub>eff</sub> / 1 min. | Impulse withstand voltage                                     | 4 kV (1.2/50 $\mu\text{s}$ ) |
| Protection degree                                | IP20                           |                                                               |                              |

## Further details of approvals / standards

|                         |         |
|-------------------------|---------|
| Certificate no. (cULus) | E223474 |
|-------------------------|---------|

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## Caractéristiques techniques

## Connection data

|                                                                                         |                     |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|---------------------|
| Wire connection method                                                                  | PUSH IN             | Stripping length, rated connection                                                      | 10 mm               |
| Clamping range, rated connection                                                        | 1,5 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 20              |
| Wire connection cross section AWG, max.                                                 | AWG 14              | Wire cross-section, solid, min.                                                         | 0,5 mm <sup>2</sup> |
| Wire cross-section, solid, max.                                                         | 1,5 mm <sup>2</sup> | Wire connection cross section, finely stranded, min.                                    | 0,5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 1,5 mm <sup>2</sup> | Wire cross-section, finely stranded, min. (AWG)                                         | AWG 20              |
| Wire cross-section, finely stranded, max. (AWG)                                         | AWG 14              | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0,5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1,5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0,5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1,5 mm <sup>2</sup> | Blade size                                                                              | 0.6 x 3.5 mm        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001504    | ETIM 7.0    | EC001504    |
| ETIM 8.0    | EC001504    | ETIM 9.0    | EC001504    |
| ECLASS 9.0  | 27-37-16-04 | ECLASS 9.1  | 27-37-16-04 |
| ECLASS 10.0 | 27-37-16-04 | ECLASS 11.0 | 27-37-16-04 |
| ECLASS 12.0 | 27-37-16-04 | ECLASS 13.0 | 27-37-16-04 |
| ECLASS 14.0 | 27-37-16-04 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9 |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E223474    |

## Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                         |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |                                                                         |

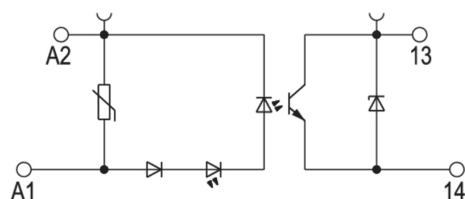
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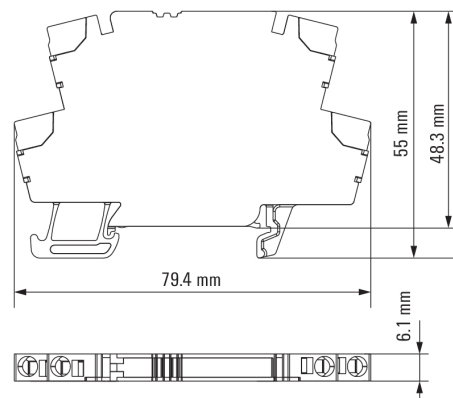
## Dessins

### Wiring diagram

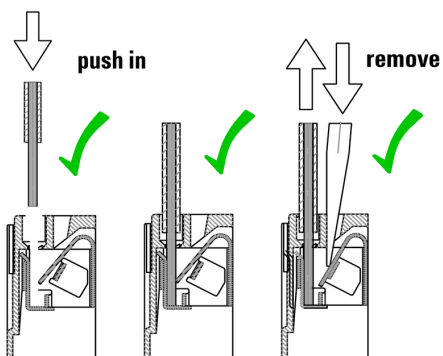


Schaltsymbol

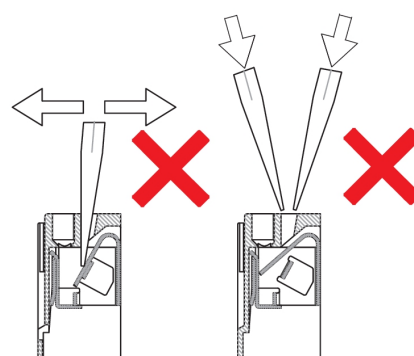
### Dimensional drawing



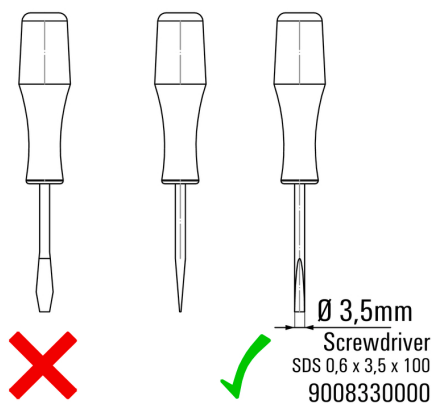
### Correct handling PUSH IN connection



### Wrong handling PUSH IN connection



### Recommended screwdriver



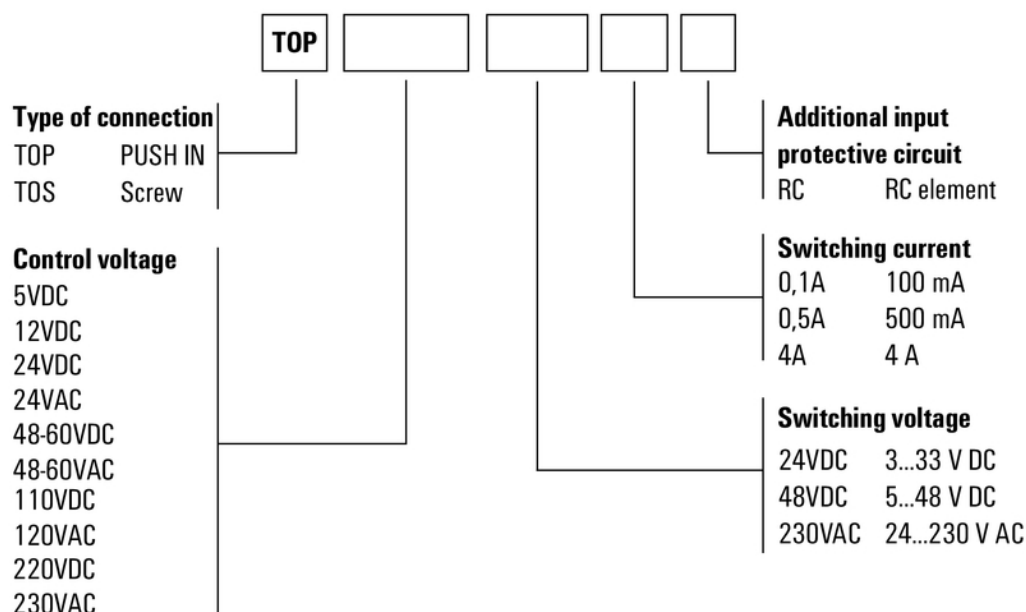
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## Dessins

## Miscellaneous



Type codes