

## TERMOPTO TOP 5VDC/48VDC 0,5A

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-2083  
 www.weidmueller.com



The TERMOPTO opto module is used in industrial applications in which electrical isolation and signal conditioning without switching amplification is sufficient. The compact design in terminal-block format saves space on the rail and offers the option of a pluggable cross-connection. The choice between 10 input voltages and 3 output voltages as well as between screw or Push In connection technology gives 60 variations for different applications. The integrated protective circuit ensures sufficient protection in applications with resistive as well as slightly inductive and capacitive loads. For purely inductive, capacitive or comparable loads with high switch-on and switch-off peaks, such as solenoid valves or filament lamps, ensure that the module is dimensioned appropriate or an additional safeguard is used.

### General ordering data

|                  |   |
|------------------|---|
| Order No.        | <a href="#">8950960000</a>  |
| Part designation | TOP 5VDC/48VDC 0,5A   |
| Version          | TERMOPTO, Solid-state relay, 5...48 V DC, 500 mA, PUSH IN spring connection |
| GTIN (EAN)       | 4032248742325   |
| Qty.             | 10 pc(s).   |

**TERMOPTO  
TOP 5VDC/48VDC 0,5A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
www.weidmueller.com

**Technical data**

**Dimensions**

|        |         |       |        |
|--------|---------|-------|--------|
| Length | 79.5 mm | Width | 6.1 mm |
| Height | 55 mm   |       |        |

**Temperature**

|                                   |                 |                     |                 |
|-----------------------------------|-----------------|---------------------|-----------------|
| Ambient temperature (operational) | -20 °C...+60 °C | Storage temperature | -40 °C...+80 °C |
|-----------------------------------|-----------------|---------------------|-----------------|

**Approvals**

|                      |           |
|----------------------|-----------|
| Approvals institutes | CULUS; CE |
|----------------------|-----------|

**Control side**

|                       |          |                                  |                                       |
|-----------------------|----------|----------------------------------|---------------------------------------|
| Dropout voltage       | ≤ 2 V DC | Input frequency                  | < 200 Hz                              |
| Power rating          | < 40 mW  | Protective circuit, control side | Varistor, reverse polarity protection |
| Rated control voltage | 5 V DC   | Status display on control side   | Green LED                             |
| making voltage        | ≥ 4 V DC |                                  |                                       |

**General data**

|                          |                            |                             |  |
|--------------------------|----------------------------|-----------------------------|--|
| Standards                | EN 50178, IEC 62314, UL508 | Humidity                    | 5...95 % rel. humidity<br>T <sub>U</sub> = 40°C, no condensation |
| Flammability class UL 94 | V-0                        | Conductor connection system | PUSH IN spring connection  |
| DIN Rail compatibility   | TS 35                      | Solid-state type            | Transistor   |

**Insulation coordination (EN 50 178)**

|  |        |                                 |      |
|--|--------|---------------------------------|------|
| Clearance and creepage distances for control/load side | > 3 mm | Overvoltage category            | III  |
| Pollution severity                                     | 2      | Rated impulse withstand voltage | 4 kV |
| Rated voltage  | 300 V  |                                 |      |

**Load side**

|                           |          |                               |             |
|---------------------------|----------|-------------------------------|-------------|
| Continuous current        | 500 mA   | Leakage current               | < 10 µA     |
| Load category             | DC1      | Protective circuit, load side | Diode       |
| Rated switching current   | 500 mA   | Rated switching voltage       | 5...48 V DC |
| Short-circuit-proof       | No       | Status indicator load side    | No          |
| Switch-off delay          | < 200 µs | Switch-on delay               | < 20 µs     |
| Voltage drop at max. load | < 1 V    |                               |             |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001504    | eClass 5.1 | 27-27-09-90 |
| eClass 6.0 | 27-27-09-90 |            |             |

**Datasheet**

**TERMOPTO**  
**TOP 5VDC/48VDC 0,5A**

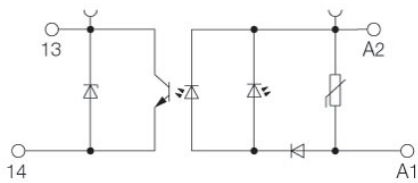
**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
www.weidmueller.com

**Drawings**

**Electric symbol**

---

5 V DC



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [weidmuller](#) manufacturer:*

Other Similar products are found below :

[8924550000](#) [56956](#) [0133660000](#) [6720000227](#) [6720005111](#) [68676](#) [69718](#) [EXO24CH](#) [7760056106](#) [7760056348](#) [7940000218](#) [8005181001](#)  
[8008180000](#) [8432240000](#) [8463580000](#) [8545830000](#) [8689870000](#) [8705640000](#) [9001080000](#) [9003720000](#) [9004250000](#) [9004780000](#)  
[9013260000](#) [9014100000](#) [9019040000](#) [9026010000](#) [9028630000](#) [903708](#) [9037350000](#) [9046290000](#) [9129643500](#) [913155](#) [9159530000](#)  
[919656](#) [919764](#) [9202230000](#) [9202850000](#) [9456750000](#) [9457913000](#) [980811](#) [980826](#) [9912800003](#) [9916080000](#) [9916280012](#) [9918380000](#)  
[9919371205](#) [9919371224](#) [9925710000](#) [9927480024](#) [1166660000](#)