

## TERMOPTO TOP 48-60VDC/48VDC 0,1A

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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="#">8950790000</a>
Part designation	TOP 48-60VDC/48VDC 0,1A
Version	TERMOPTO, Solid-state relay, 5...48 V DC, 100 mA, PUSH IN spring connection
GTIN (EAN)	4032248742165
Qty.	10 pc(s).

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**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
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**Approvals**

Approvals institutes	CULUS; CE
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**Control side**

Dropout voltage	≤ 19.2 V DC	Input frequency	< 500 Hz
Power rating	< 200 mW	Protective circuit, control side	Varistor, reverse polarity protection
Rated control voltage	48...60 V DC	Status display on control side	Green LED
making voltage	≥ 38.4 V AC		

**General data**

Standards	EN 50178, IEC 62314, UL508	Humidity	5...95 % rel. humidity 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	100 mA	Leakage current	< 10 µA
Load category	DC1	Protective circuit, load side	Diode
Rated switching current	100 mA	Rated switching voltage	5...48 V DC
Short-circuit-proof	No	Status indicator load side	No
Switch-off delay	< 42 µs	Switch-on delay	< 13 ms
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		

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**Drawings****Electric symbol**

12...220 DC

