

**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).

Creation date October 15, 2010 8:48:17 AM CEST

Last update 30.08.2010 / We reserve the right to make technical changes.

**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 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		

**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

