

TERMOPTO
TOP 24VDC/48VDC 0,5A

Weidmüller Interface GmbH & Co. KG
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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.	8950980000
Part designation	TOP 24VDC/48VDC 0,5A
Version	TERMOPTO, Solid-state relay, 5...48 V DC, 500 mA, PUSH IN spring connection
GTIN (EAN)	4032248741779
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	≤ 9.6 V DC	Input frequency	< 200 Hz
Power rating	≤ 170 mW	Protective circuit, control side	Varistor, reverse polarity protection
Rated control voltage	24 V DC	Status display on control side	Green LED
making voltage	≥ 19.2 V DC		

General data

Standards	EN 50178, IEC 62314, UL508	Humidity	5...95 % rel. humidity T _U = 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

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Drawings

Electric symbol

12...220 DC

