

TERMOPTO
TOP 12VDC/48VDC 0,1A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Similar to illustration

TERMOPTO solid-state relay 5 to 48 VDC 0.1 A output version,

with AC or DC input, available in different versions:

- With PUSH IN connection
- In 6.1 mm width
- With various input protection circuits (free-wheel diode, varistor)
- Pluggable cross-connections
- Enclosed design

General ordering data

Type	TOP 12VDC/48VDC 0,1A
Order No.	8950770000
Version	TERMOPTO, solid-state relais, 1 NO contact (Transistor), Rated control voltage: 12 V DC $\pm 20\%$, Rated switching voltage: 5...48 V DC, Continuous current: 100 mA, PUSH IN
GTIN (EAN)	4032248742141
Qty.	10 pc(s).

Creation date August 1, 2020 11:06:07 PM CEST

Catalogue status 24.07.2020 / We reserve the right to make technical changes.

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Technical data
Dimensions and weights

Width	6.1 mm	Width (inches)	0.24 inch
Height	79.4 mm	Height (inches)	3.126 inch
Depth	55 mm	Depth (inches)	2.165 inch
Net weight	19.6 g		

Temperatures

Humidity	5-95% relative humidity, T _u = 40°C, without condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	80 °C
Storage temperature, min.	-40 °C	Operating temperature	-20 °C...60 °C
Storage temperature	-40 °C...80 °C		

Probability of failure

MTTF	2,500 Years
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Control side

Rated control voltage	12 V DC ±20 %	Nominal control current	7.8 mA DC
Power rating	< 95 mW	Cut-in / dropout voltage	9.6 V / 3 V DC
Status indicator	No	Protective circuit	Varistor, Reverse polarity protection

Load side

Rated switching voltage	5...48 V DC	Continuous current	100 mA
Load category	DC1	Switch-on delay	< 13 µs
Switch-off delay	< 42 µs	Voltage drop at max. load	< 1 V
Leakage current	< 10 µA	Min. switching current	100 µA
Short-circuit-proof	No	Protective circuit, load side	Free-wheeling diode
max. switching frequency (DC control voltage)	3,000 Hz		

Contact data

Contact type	1 NO contact (Transistor)
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General data

Rail	TS 35	Colour	black
UL 94 flammability rating	V-0		

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Technical data
Insulation coordination

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

Further details of approvals / standards

Standards	DIN EN 50178, IEC 62314, UL508	Certificate no. (cULus)	E223474
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Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	10 mm
Clamping range, rated connection	1.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²	Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.5 mm ²
Wire cross-section, solid, max.	1.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire connection cross section, finely stranded, max.	1.5 mm ²	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 ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²	Blade size	0.6 x 3.5 mm

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
eClass 9.0	27-37-16-04	eClass 9.1	27-37-16-04
eClass 10.0	27-37-16-04		

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert – multilingual

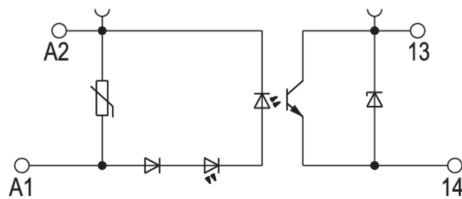
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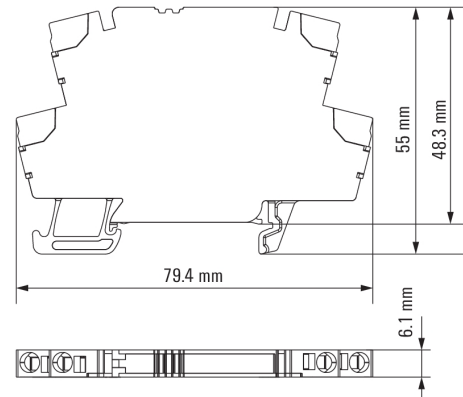
Drawings

Wiring diagram

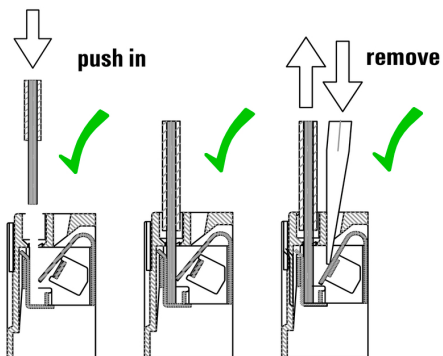


Schaltsymbol

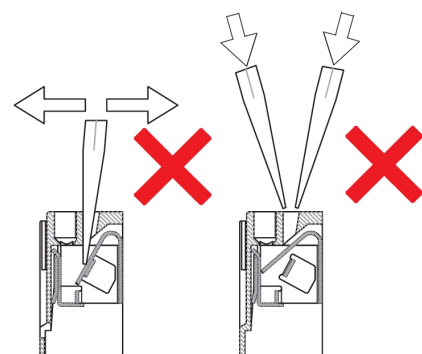
Dimensional drawing



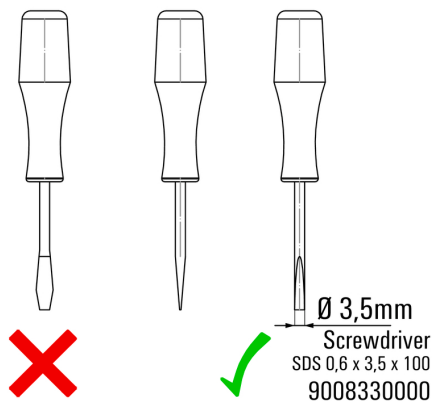
Correct handling PUSH IN connection



Wrong handling PUSH IN connection



Recommended screwdriver

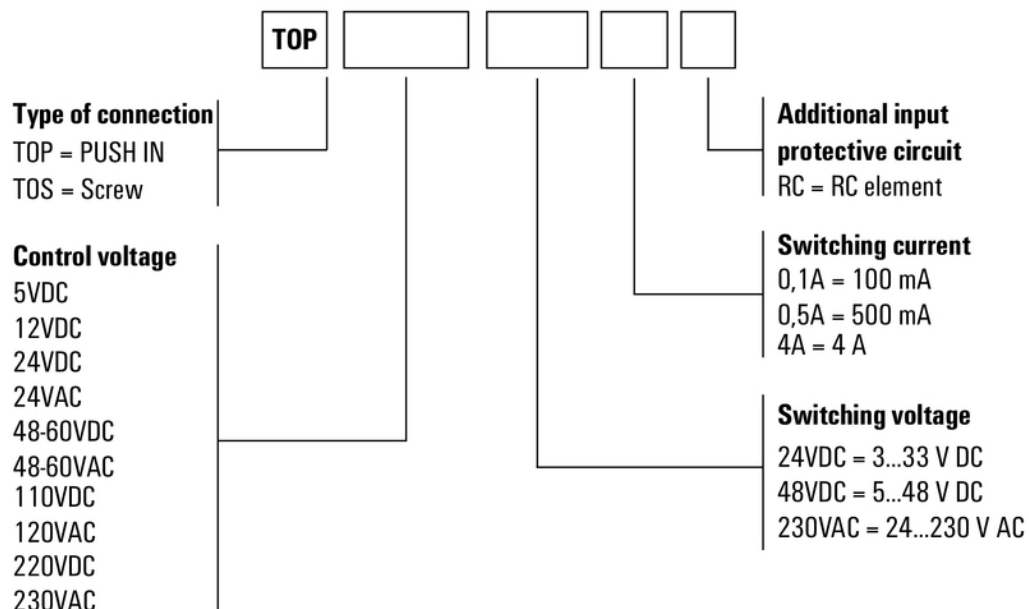


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Drawings

Miscellaneous



Type codes