

TOP 5VDC/48VDC 0,5A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

- 1 NO contact (Transistor)
- Ensures wear- and maintenance-free potential separation in compact terminal block format
- Suitable accessories from the cross-connection to the marker
- Integrated protective circuit for inputs and outputs

General ordering data

Version	TERMOPTO, Solid-state relay, 1 NO contact (Transistor), Rated control voltage: 5 V DC $\pm 20\%$, Rated switching voltage: 5...48 V DC, Continuous current: 500 mA, PUSH IN
Order No.	8950960000
Type	TOP 5VDC/48VDC 0,5A
GTIN (EAN)	4032248742325
Qty.	10 pc(s).

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Catalogue status 23.07.2021 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	55 mm	Depth (inches)	2.165 °C
Height	79.4 mm	Height (inches)	3.126 °C
Width	6.1 mm	Width (inches)	0.24 °C
Net weight	19.3 g		

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-20 °C...60 °C
Humidity	5-95% relative humidity, $T_u = 40^\circ\text{C}$, without condensation		

Probability of failure

MTTF	2,500 MPPT
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Control side

Rated control voltage	5 V DC $\pm$ 20 %	Nominal control current	7.7 mA DC
Power rating	< 40 mW	Pull-in/drop-out voltage, typ.	4 V / 1.25 V DC
Status indicator	Green LED	Protective circuit	Varistor, Reverse polarity protection

Load side

Rated switching voltage	5...48 V DC	Continuous current	0.5 A (DC1)
Voltage drop at max. load	< 1 V	Leakage current	< 10 μA
Switch-on delay	< 20 μs	Switch-off delay	< 200 μs
max. switching frequency (DC control voltage)	200 Hz	Load category	DC1
Protective circuit, load side	Free-wheeling diode	Short-circuit-proof	No
Contact type	1 NO contact (Transistor)		

General data

Rail	TS 35		
Test button available	No		
Colour	black		
UL94 flammability rating component	Component	Housing	
	UL94 flammability rating	V-0	

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		

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Technical data

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

Classifications

ETIM 6.0	EC001504	ETIM 7.0	EC001504
ETIM 8.0	EC001504	ECLASS 9.0	27-37-16-04
ECLASS 9.1	27-37-16-04	ECLASS 10.0	27-37-16-04
ECLASS 11.0	27-37-16-04		

Approvals

Approvals



ROHS	Conform
UL File Number Search	E223474

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Package Insert – multilingual
Catalogues	Catalogues in PDF-format
Brochures	

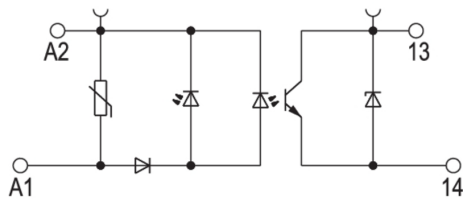
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Drawings

Wiring diagram



Schaltsymbol

Dimensional drawing



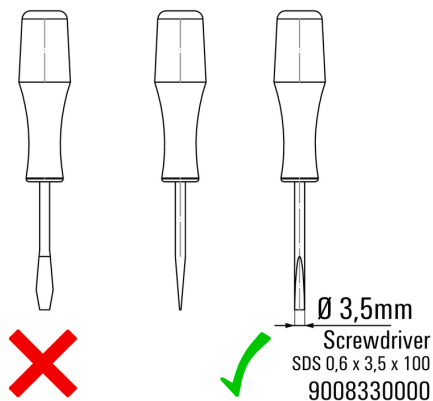
Correct handling PUSH IN connection



Wrong handling PUSH IN connection



Recommended screwdriver



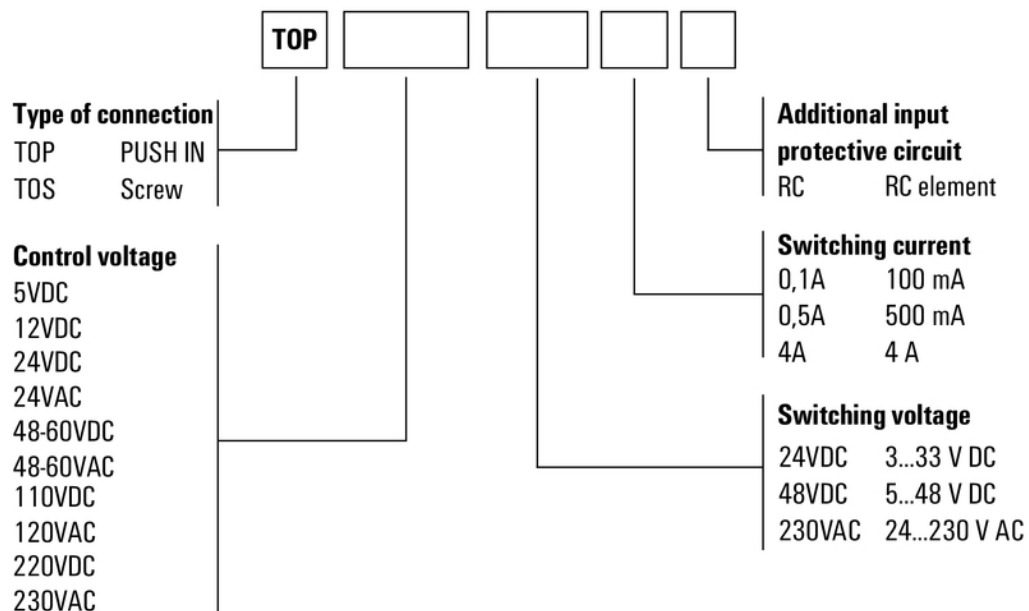
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Drawings

Miscellaneous



Type codes