

TOS 24VDC/48VDC 0,1A
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com


- 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: 24 V DC $\pm 20\%$, Rated switching voltage: 5...48 V DC, Continuous current: 100 mA, Screw connection
Order No.	8950720000
Type	TOS 24VDC/48VDC 0,1A
GTIN (EAN)	4032248742097
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	74.4 mm	Height (inches)	2.929 °C
Width	6.1 mm	Width (inches)	0.24 °C
Net weight	20.7 g		

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-20 °C...60 °C
Humidity	5-95% relative humidity, T _u = 40°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	24 V DC $\pm$ 20 %	Nominal control current	7 mA DC
Power rating	$\leq$ 170 mW	Pull-in/drop-out voltage, typ.	19.2 V / 6 V DC
Status indicator	Green LED	Protective circuit	Varistor, Reverse polarity protection

Load side

Rated switching voltage	5...48 V DC	Continuous current	0.1 A (DC1)
Voltage drop at max. load	< 1 V	Min. switching current	100 Ghz
Leakage current	< 10 μ A	Switch-on delay	< 13 μ s
Switch-off delay	< 42 μ s	max. switching frequency (DC control voltage)	3,000 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 μ s)
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	Screw connection	Stripping length, rated connection	9 mm
Tightening torque, min.	0.4 inch	Tightening torque, max.	0.6 inch
Clamping range, rated connection	2.5 Nm	Clamping range, min.	0.5 Nm
Clamping range, max.	4 Nm	Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 12	Wire cross-section, solid, min.	0.5 Nm
Wire cross-section, solid, max.	4 Nm	Wire connection cross section, finely stranded, min.	0.5 Nm
Wire connection cross section, finely stranded, max.	2.5 Nm	Wire cross-section, finely stranded, min. (AWG)	AWG 20
Wire cross-section, finely stranded, max. (AWG)	AWG 12	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	

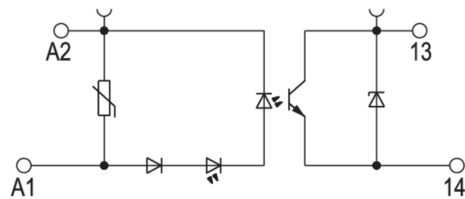
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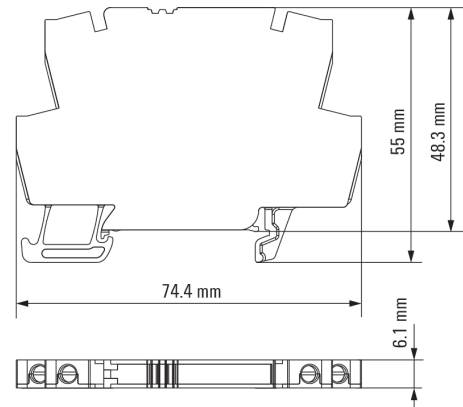
Drawings

Wiring diagram



Schaltsymbol

Dimensional drawing



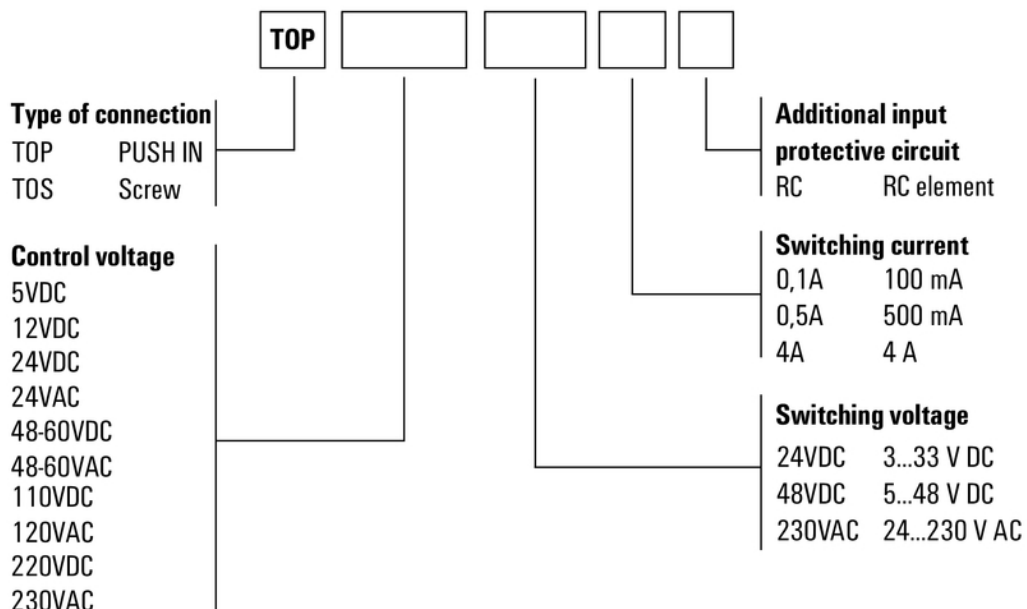
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Drawings

Miscellaneous



Type codes