

## TERMOPTO TOS 24VDC/230VAC 0,1A

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

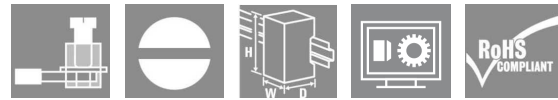
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TERMOPTO solid-state relay 230 VAC 0.1 A output version,

with AC or DC input, available in different versions:

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

### General ordering data

Type	TOS 24VDC/230VAC 0,1A
Order No.	<a href="#">8951120000</a>
Version	TERMOPTO, solid-state relays, 1 NO contact (Triac (zero-cross switch)), Rated control voltage: 24 V DC $\pm 20\%$ , Rated switching voltage: 24...230 V AC, Continuous current: 100 mA, Screw connection
GTIN (EAN)	4032248741892
Qty.	10 pc(s).

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**Technical data****Dimensions and weights**

Width	6.1 mm	Width (inches)	0.24 inch
Height	74.4 mm	Height (inches)	2.929 inch
Depth	55 mm	Depth (inches)	2.165 inch
Net weight	20.5 g		

**Temperatures**

Humidity	5–95% rel. humidity, $T_u = 40^\circ\text{C}$ , no condensation	Operating temperature	-20 °C...60 °C
Storage temperature	-40 °C...80 °C		

**Probability of failure**

MTTF	2,500 Years
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**Control side**

Rated control voltage	24 V DC $\pm 20\%$	Nominal control current	3.6 mA DC
Power rating	$\leq 80$ mW	Cut-in / dropout voltage	19.2 V / 6 V DC
Protective circuit	Varistor, Reverse polarity protection		

**Load side**

Rated switching voltage	24...230 V AC	Continuous current	100 mA
Rated switching current	100 mA	Load category	AC1
Switch-on delay	$\leq 10$ ms	Switch-off delay	$< 12$ ms
Voltage drop at max. load	$< 1.8$ V	Leakage current	$< 1$ mA
Short-circuit-proof	No	Protective circuit, load side	Varistor, RC element
max. switching frequency (DC control voltage)	10 Hz		

**Contact data**

Contact type	1 NO contact (Triac (zero-cross switch))
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**General data**

UL 94 flammability rating	V-0
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**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 <sub>eff</sub> / 1 min.	Impulse withstand voltage	4 kV (1.2/50 $\mu\text{s}$ )
Protection degree	IP20		

**Further details of approvals / standards**

Standards	DIN EN 50178, IEC 62314, UL508	Certificate no. (cULus)	E223474
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Creation date June 13, 2017 10:51:52 AM CEST

Catalogue status 02.06.2017 / We reserve the right to make technical changes.

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**Technical data****Connection data**

Wire connection method	Screw connection	Stripping length, rated connection	9 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.6 Nm
Clamping range, rated connection	2.5 mm <sup>2</sup>	Clamping range, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, max.	4 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 12	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	4 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>	Wire cross-section, finely stranded, min. (AWG)	AWG 20
Wire cross-section, finely stranded, max. (AWG)	AWG 12	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	1.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm <sup>2</sup>	Blade size	0.6 x 3.5 mm

**Classifications**

ETIM 3.0	EC001504	ETIM 4.0	EC001504
ETIM 5.0	EC001504	ETIM 6.0	EC001504
eClass 5.1	27-27-09-90	eClass 6.2	27-27-09-90
eClass 7.1	27-27-09-90	eClass 8.1	27-27-09-90
eClass 9.0	27-27-09-90	eClass 9.1	27-37-16-04

**Product information**

Descriptive text technical data	Accessories and dimensioned drawings: refer to the TERMOPTO Accessories page.
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**Approvals**

Approvals



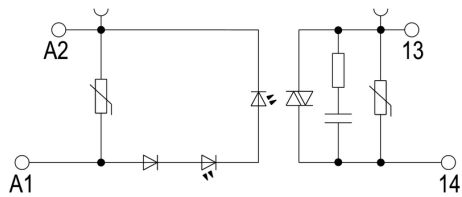
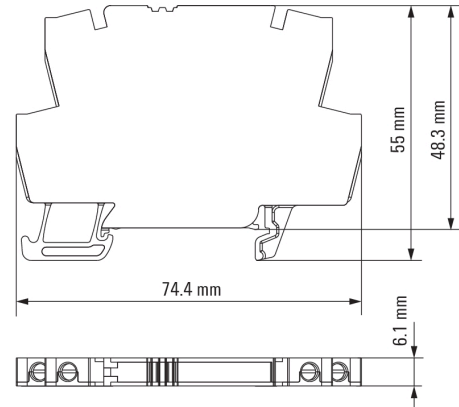
ROHS	Conform
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**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">DE_PA_5600_160301_001.pdf</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Operating Instructions</a>

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**Drawings****Electric symbol****Dimensioned drawing**

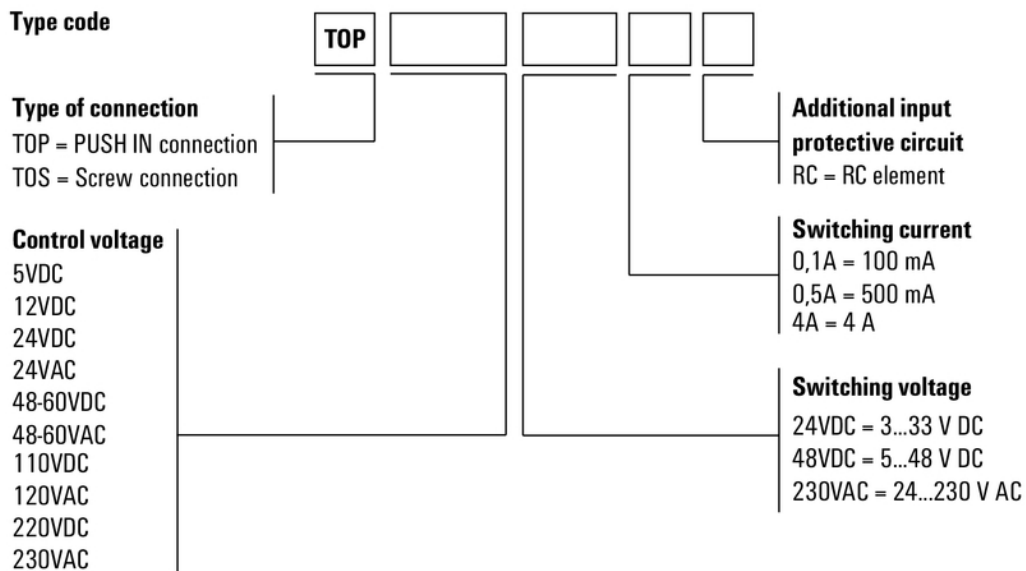
**Data sheet**

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**Drawings**

**Type codes**



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