

TOPL 24-110VDC 5-110VDC0.25A TRAK
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The ultra-compact TERMSERIES-compact TRAK complete modules comply with the strict standards of the railway industry. Their relays are permanently installed, which makes them particularly vibration-proof. They operate reliably in a temperature range of -40 to +70 °C and are protected against condensation. Typical railway voltage fluctuations and interruptions are tolerated without functional failure. Thanks to their slim, flat design, they can be installed anywhere. And since their contours are identical to those of the tried-and-tested TERMSERIES, all accessories of the series can be used. This means that extremely robust solutions can be realised - even outside the railway industry.

- Developed according to the strict railway standards EN 50155, EN 61373 and EN 45545-2
- Resistant to voltage and temperature fluctuations
- Insensitive to shocks and vibrations
- Extremely compact with a width of only 6.4 mm and a depth of 63 mm
- Integrated status LED for easy function testing
- Compatible with the complete range of TERMSERIES accessories

General ordering data

Version	TERMSERIES-compact, Solid-state relay, Rated control voltage: 24...110 V DC -30 / +25 % , Rated switching voltage: 5...110 V DC, Continuous current: 250 mA, PUSH IN
Order No.	2773600000
Type	TOPL 24-110VDC 5-110VDC0.25A TRAK
GTIN (EAN)	4064675037378
Qty.	10 items

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Technical data
Approvals

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Dimensions and weights

Depth	62.5 mm	Depth (inches)	2.4606 inch
Height	89.4 mm	Height (inches)	3.5197 inch
Width	6.4 mm	Width (inches)	0.252 inch
Net weight	23.94 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...70 °C
Operating temperature		Humidity	5-85% relative humidity, Tu = 40°C, without condensation

Probability of failure

MTTF	2551 a
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1

Control side

Rated control voltage	24...110 V DC -30 / +25 %	Rated current DC	2.16 mA @ 24 V DC, 2.9 mA @ 110 V DC
Power rating	51 mW @ 24 V DC, 319 mW @ 110 V DC	Status indicator	Green LED
Protective circuit	Reverse polarity protection		

Load side

Rated switching voltage	5...110 V DC	Continuous current	0.25 A
Max. switching frequency at rated load	10 Hz	Inrush current	3.4 mA @ 24 V DC, 11.4 mA @ 110 V DC
Switch-on delay	<4 ms	Switch-off delay	<150 ms
Protective circuit, load side	Suppressor diode, Free-wheeling diode	Contact type	NO contact (Transistor)

General data

Operating altitude	≤ 2000 m, above sea level	
Version	for railway applications	
Mounting rail	TS 35	
Test button available	No	
Mechanical switch position indicator	No	
Colour	black	
UL 94 flammability rating	V-0	
UL94 flammability rating component	Component	Housing

TOPL 24-1 10VDC 5-1 10VDC0.25A TRAK

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Technical data

UL94 flammability rating	V-0
Component	Relay status indicator
UL94 flammability rating	V-0
Component	Pusher
UL94 flammability rating	V-0

Insulation coordination

Pollution severity	2	Surge voltage category	III
Clearance and creepage distances for control side - load side	8 mm	Dielectric strength for control side - load side	4 kVeff / 1 min
Type of isolation at input and output	reinforced insulation	Dielectric strength to mounting rail	4 kVeff / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 µs)	Protection degree	IP20

Connection data

Stripping length	9 mm	Wire connection method	PUSH IN
Stripping length, rated connection	9 mm	Clamping range, rated connection	1.5 mm ²
Clamping range, min.	0.14 mm ²	Clamping range, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 26	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 cross-section, solid, min. (AWG)	AWG 26	Wire cross-section, solid, max. (AWG)	AWG 14
Wire connection cross section, finely stranded, min.	0.35 mm ²	Wire connection cross-section, finely stranded, max.	2.5 mm ²
Wire cross-section, finely stranded, min. (AWG)	AWG 26	Wire cross-section, finely stranded, max. (AWG)	AWG 14
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), min.	0.5 mm ²	Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	1.5 mm ²
Blade size	0.6 x 3.5 mm		

Classifications

ETIM 8.0	EC001504	ETIM 9.0	EC001504
ETIM 10.0	EC001504	ECLASS 14.0	27-37-16-04
ECLASS 15.0	27-37-16-04		

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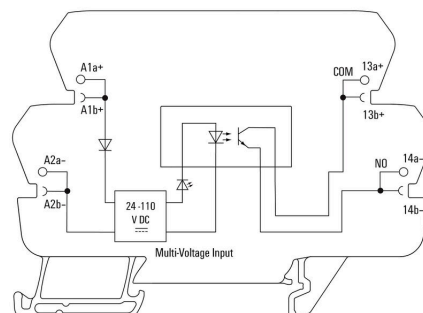
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Drawings

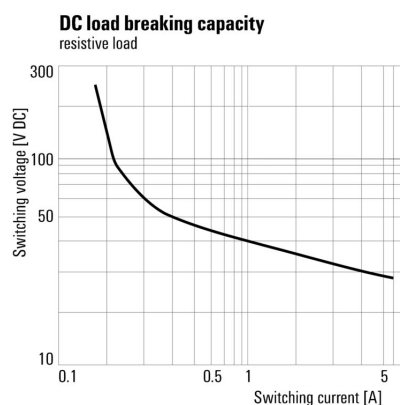
Similar to illustration



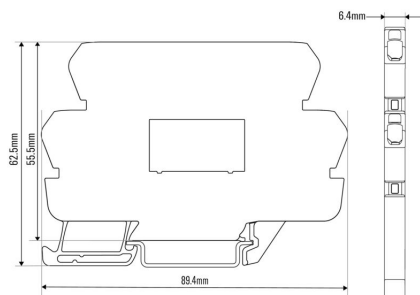
Wiring diagram



Graph



Dimensional drawing



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Drawings
Miscellaneous
Type code solid-state relay
