

TRS T 24VDC 1CO M3
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image


Timing relay for control signal adaptation with additional functions

Timing relays are used to coordinate fast switching processes in control systems, among other things. TERMSERIES TIMER timing relays have a on-delay, which allows for the delayed switch-on of machines, the cascaded start-up of system components or the delayed activation of consumers such as pumps or valves. They also have the One Shot and blinker functions. TERMSERIES TIMER timing relays in compact 6.4 mm terminal block format are available with either a screw connection or a PUSH IN wire connection. The timing functions and time ranges can be conveniently adjusted via the DIP switches on the side. The power supply and the respective switching status can be checked at a glance by means of the clearly visible duo LED on the ejection lever. International approvals in accordance with EN 61812 mean that they can be used anywhere in the world. TERMSERIES TIMER is compatible with the wide range of TERMSERIES accessories, thereby ensuring high levels of flexibility and simple integration into existing systems.

- Integration of additional timing functions in 6 mm TERMSERIES version
- Standard-compliant timing relays according to EN 61812
- Simple setting of timing functions and time ranges

- Integrated status LED (duo-LED in the ejection lever) for power supply and switching status

General ordering data

Version	TERMSERIES, Multifunction timing relay, Number of contacts: 1, CO contact, AgSnO, Rated control voltage: 24 V DC $\pm 20\%$, Continuous current: 6 A, Screw connection
Order No.	2639560000
Type	TRS T 24VDC 1CO M3
GTIN (EAN)	4050118715569
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	88 mm	Depth (inches)	3.465 inch
Height	90 mm	Height (inches)	3.543 inch
Net weight	33.7 g	Width	6.4 mm
Width (inches)	0.252 inch		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...60 °C
Humidity	5-95% relative humidity, T _u = 40°C, without condensation		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Operating altitude	≤ 2000 m, above sea level	Ambient temperature (operational), max.	60 °C
Connection cross-section AWG, min.	AWG 26	Connection cross-section AWG, max.	AWG 14
Type of conductor	rigid copper conductor, flexible copper conductor	Tightening torque, max.	0.4 Nm
Pollution severity level	2		

Control side

Basic accuracy	≤ 5% (of scale-end value)	Coil voltage of the replacement relay	24 V DC
Coil voltage of the replacement relay deviating from the rated control voltage	No	Max. reset time after voltage interruption	50 ms
Min. pulse duration	50 ms	Power rating	280 mW
Protective circuit	Free-wheeling diode	Rated control voltage	24 V DC ± 20 %
Rated current DC	11.5 mA	Repeat accuracy	± 1 %
Setting tolerance	5 %	Status indicator	Duo-LED orange: relay output on, Green duo- LED lit: supply voltage on, Green duo-LED flashes: incorrect configuration, no function
Time ranges	0.01 s - 0.1 s, 0.1 s - 1 s, 1 s - 10 s, 10 s - 100 s		

Load side

AC switching capacity (resistive), max.	1500 VA	Continuous current	6 A
DC switching capacity (resistive), max.	144 W @ 24 V	Inrush current	20 A / 20 ms
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Rated switching voltage	250 V AC		

Contact data

Contact type	1 CO contact (AgSnO)	Mechanical service life	5 x 10 ⁶ switching cycles
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General data

Rail	TS 35	Test button	No
Mechanical switch position indicator	No	Colour	black
UL 94 flammability rating	V-0		

Insulation coordination

Clearance and creepage distances for control side - load side	≥ 6 mm	Dielectric strength for control side - load side	4 kV _{eff} / 1 Min.
Dielectric strength of open contact	1 kV _{eff} / 1 min	Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 µs)	Pollution severity	2
Protection degree	IP20	Rated voltage	250 V
Surge voltage category	III		

Further details of approvals / standards

Standards	EN 61812-1:2011, UL 61010-1	Certificate No. (DNVGL)	TAA00001E5
Certificate no. (cULus)	E141197		

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	0.4 Nm	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.	0.14 mm ²	Wire cross-section, solid, max.	2.5 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.	0.14 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, AEH (DIN 46228-1), min.	0.14 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Twin wire-end ferrules, max.	1 mm ²
Blade size	size PHO	Gauge to IEC 60947-1	A1, B1

Classifications

ETIM 6.0	EC001439	ETIM 7.0	EC001439
ECLASS 9.0	27-37-16-05	ECLASS 9.1	27-37-16-05
ECLASS 10.0	27-37-16-05	ECLASS 11.0	27-37-16-05

Approvals

Approvals



UL File Number Search

E141197

Creation date April 16, 2021 5:49:01 AM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
User Documentation	Beschreibung der Zeitfunktionen - Deutsch Declaration of timing functions - English Beipackzettel / Package Insert – multilingual
Brochure/Catalogue	Catalogues in PDF-format

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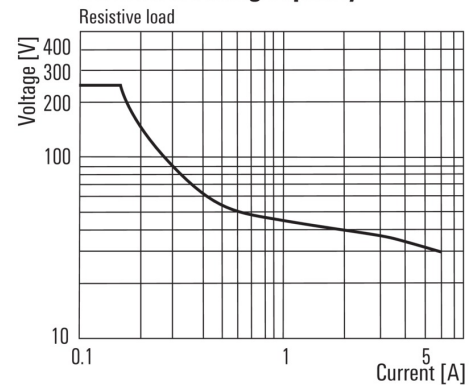
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Drawings

Graph

DC load breaking capacity

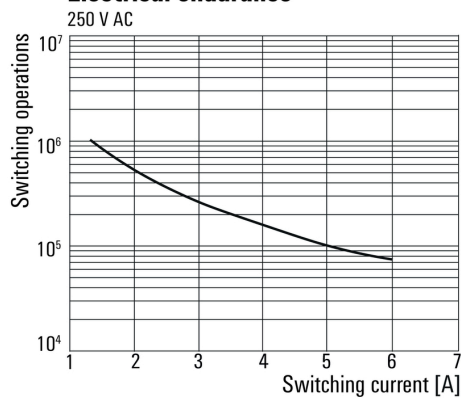


DC load limit curve

Resistive load

Graph

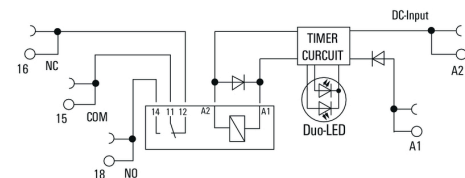
Electrical endurance



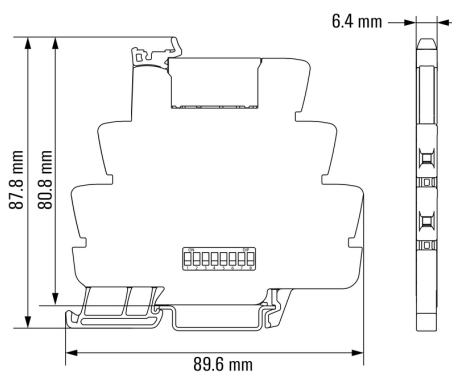
Electrical service life 230 V AC resistive load

230 V AC resistive load

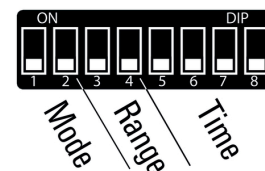
Wiring diagram



Dimensional drawing



Graph



■ = On (DIP-switch turned to ON-position)

Mode	1	2
On Delay	■	■
One Shot	■	
Blinker		■
Range	3	4
10-100s	■	■
1-10s	■	
0.1-1s		■
10-100ms		

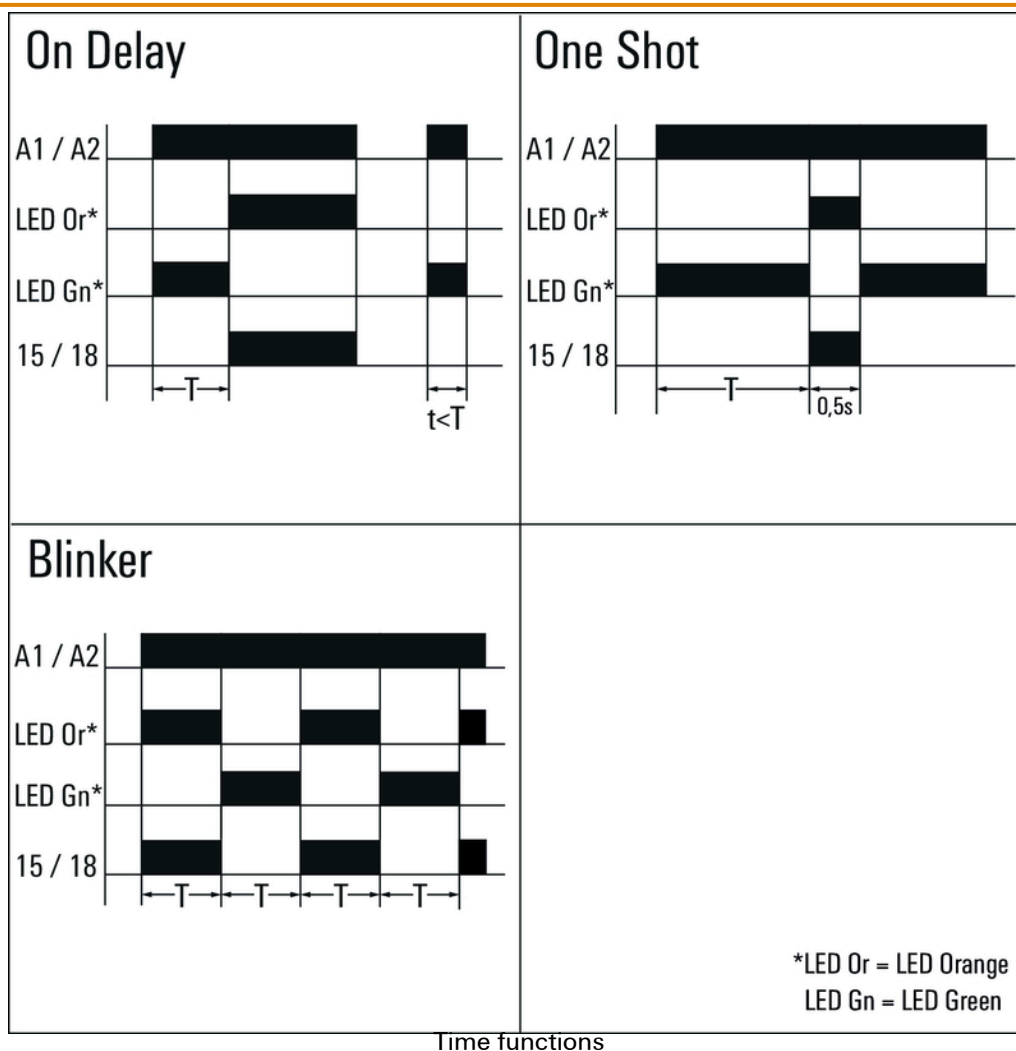
Time	5	6	7	8
0.1				■
0.2				■
0.3			■	
0.4			■	■
0.5		■		
0.6		■	■	■
0.7			■	
0.8			■	■
0.9	■			
1.0	■			■

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Drawings
Graph
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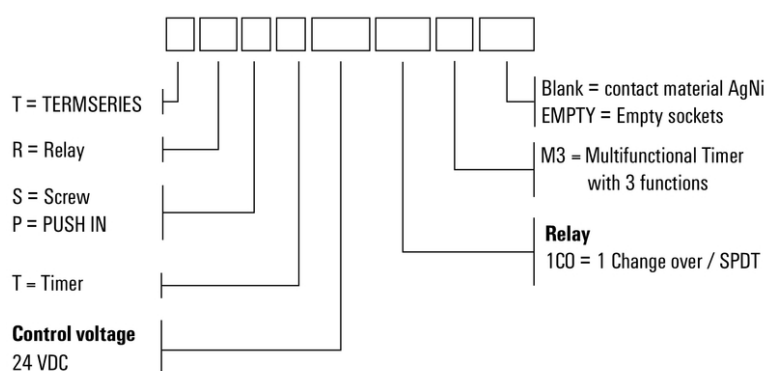
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Drawings

Type codes



Miscellaneous

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