TRS T 24VDC 1CO M3 EMPTY

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, Empty socket, Number of contacts: 1, CO contact, Rated control voltage: 24 V DC ±20 %, Continuous current: 10 A, Screw connection
Order No.	2639720000
Type	TRS T 24VDC 1CO M3 EMPTY
GTIN (EAN)	4050118715576
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	28.7 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		

Probability of failure

MTTF	977 Jahre

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

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	Certificate No. (cURus)	E223759

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	Protective circuit	Free-wheeling diode
Rated control voltage	24 V DC ± 20 %	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

Continuous current	10 A	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Rated switching voltage	250 V AC

Contact data

Contact type	1 CO contact

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General data

Version	Empty socket	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. (cURus)	E223759		

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 mm²
Clamping range, min.	0.14 mm²	Clamping range, max.	2.5 mm²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Wire cross-section, solid, min.	0.14 mm²	Wire cross-section, solid, max.	2.5 mm²
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 mm²	Wire connection cross section, finely stranded, max.	2.5 mm²
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 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.14 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm²
Twin wire-end ferrules, min.	0.5 mm²	Twin wire-end ferrules, max.	1 mm²
Blade size	size PH0	Gauge to IEC 60947-1	A1, B1

Classifications

ETIM 6.0	EC001456	ETIM 7.0	EC001456
ECLASS 9.0	27-37-16-03	ECLASS 9.1	27-37-16-03
ECLASS 10.0	27-37-16-03	ECLASS 11.0	27-37-16-03

Approvals

Approvals

UL File Number Search	E223759

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Technical data

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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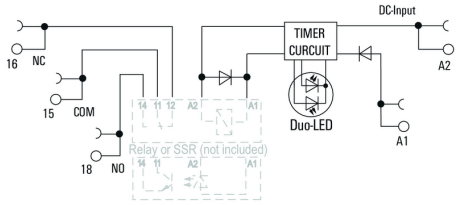
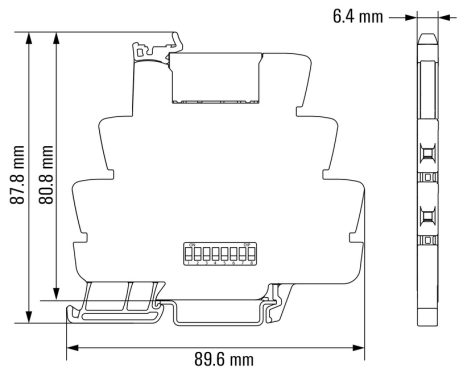
Drawings

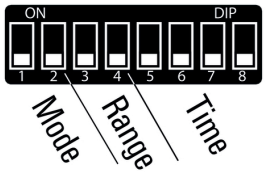
Wiring diagram



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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Graph

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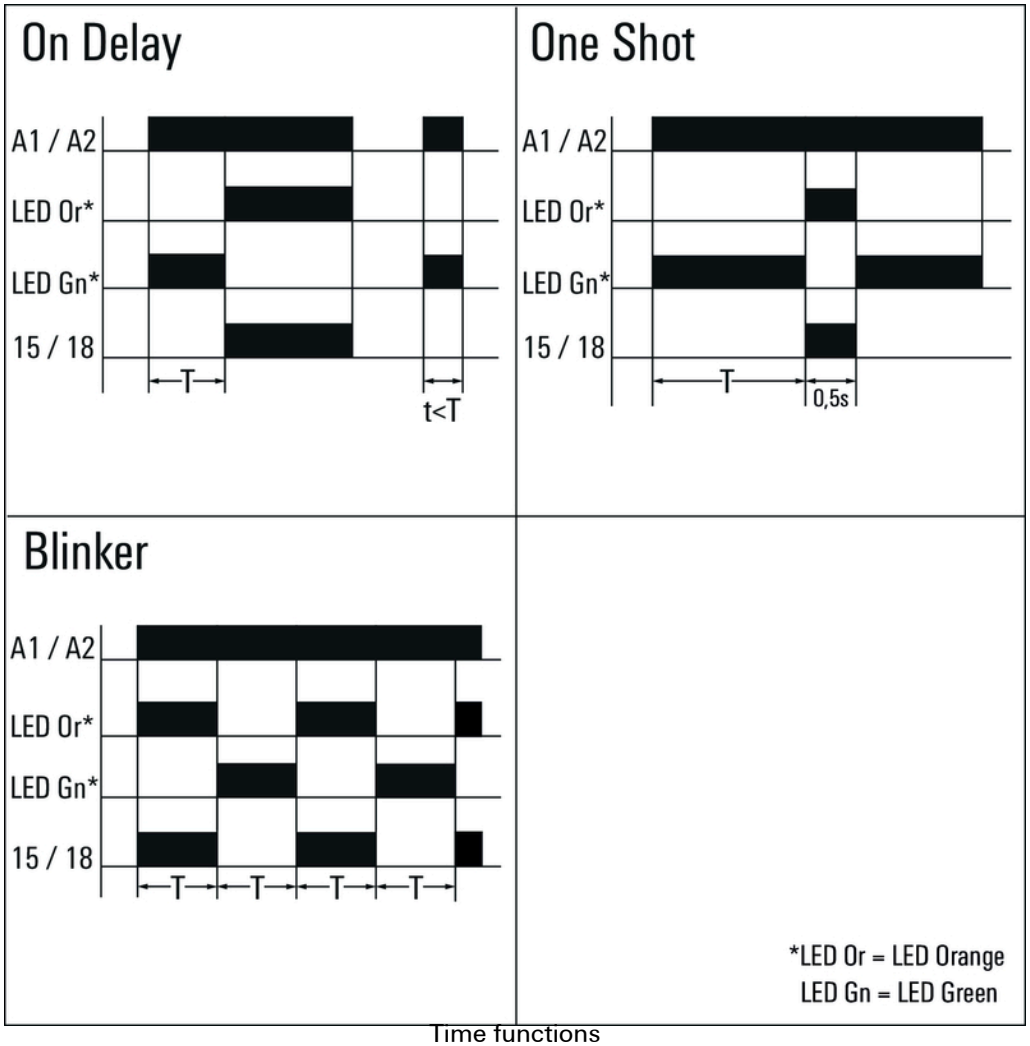

Time functions

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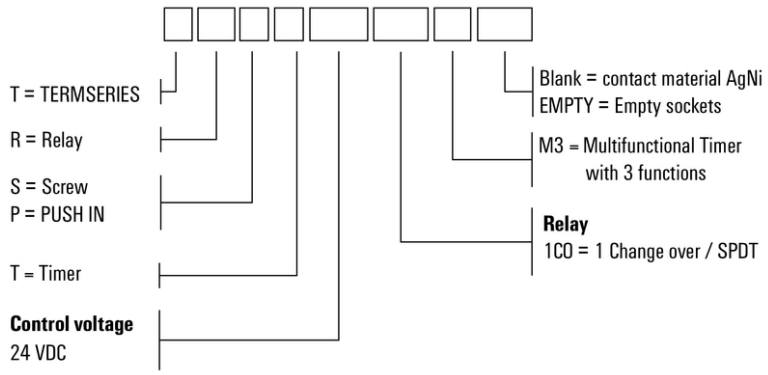
Type codes



Miscellaneous

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