

TFIS 12-240VUC 2NO SD**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Compact timing relays for building and factory automation

Our TFI-SERIES consists of five different devices covering the most important applications in building and factory automation. Four of these carry out individual functions: clock generator (pause and pulse start), star-delta switch, switch-on delay and off-delay with control input. There is also a multifunctional version with seven different timing functions. The timing functions and time ranges can be easily configured using a rotary switch fitted on the front. All of the devices meet the international standards according to EN 61812 and have UL approval for the North American market.

- Available in installation design and compact industrial design
- Simple configuration via setting potentiometers and status LED
- Compliance with international standards according to EN 61812
- UL approved for the North American market

General ordering data

Version	TFI-SERIES, Star-Delta Timer, Number of contacts: 2, NO contact, AgNi, Rated control voltage: 12...240 V UC -10 % / +10 %, Continuous current: 3 A, Screw connection
Order No.	2697270000
Type	TFIS 12-240VUC 2NO SD
GTIN (EAN)	4050118705270
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	75 mm	Depth (inches)	2.953 inch
Height	67 mm	Height (inches)	2.638 inch
Width	225 mm	Width (inches)	8.858 inch
Net weight	81 g		

Temperatures

Storage temperature	-40 °C...70 °C	Operating temperature	-25 °C...60 °C
Humidity	5...95 % rel. humidity, no condensation		

Control side

Rated control voltage	12...240 V UC -10 % / +10 %	Power rating	500 mVA, 180 mW
Status indicator	LED green (U/t) flashes: star-relay closed, time runs, LED green (U/t) lights permanently: delta-relay closed, time runs, LED yellow (R): star-relay closed	Time ranges	0.5 s - 10 s, 1.5 s - 30 s, 3 s - 60 s, 9 s - 180 s
Setting tolerance	5 %	Max. reset time after voltage interruption	200 ms
Basic accuracy	< 1 % (of scale-end value)	Min. pulse duration	100 ms
Repeat accuracy	< 0.5 % or ±5 ms		

Load side

Rated switching voltage	250 V AC	Continuous current	3 A
Max. switching voltage, AC	250 V	Max. switching voltage, DC	30 V
AC switching capacity (resistive), max.	750 VA	DC switching capacity (resistive), max.	90 W
Contact type	2 NO contact (AgNi)	Electrical service life, DC coil	100x10 ³ switching cycles (3 A at 250 VAC)
Mechanical service life	20 x 10 ⁶ switching cycles	Min. switching power	10 mA @ 12 V, 100 mA @ 5 V

General data

Suitable for front mounting	No	Rail	TS 35
Test button available	No	Mechanical switch position indicator	No
Colour	black	UL 94 flammability rating	V-0
Resistance to vibration EN 61812-1	10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g		

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	1.6 kV	Impulse withstand voltage	4 kV
Protection degree	IP20		

Further details of approvals / standards

Certificate no. (cULus)	E360862
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Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	1 Nm	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	4 mm ²
Wire connection cross section AWG, min.	AWG 20	Wire connection cross section AWG, max.	AWG 12
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	4 mm ²
Wire connection cross section, finely stranded, min.	0.5 mm ²	Wire connection cross section, finely stranded, max.	4 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 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.	2.5 mm ²
Blade size	size PH 1		

Classifications

ETIM 6.0	EC001439	ETIM 7.0	EC001439
ETIM 8.0	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	ECLASS 12.0	27-37-16-05

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E360862

Downloads

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

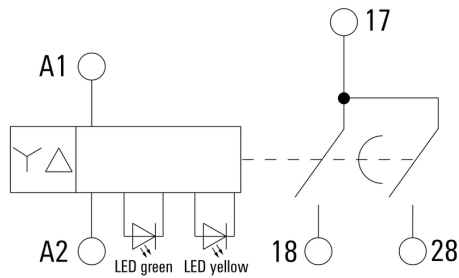
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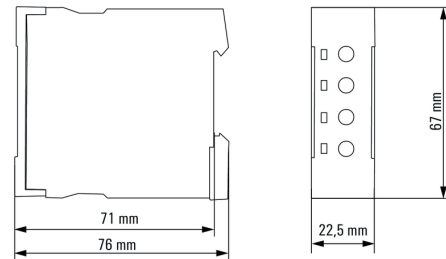
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Drawings

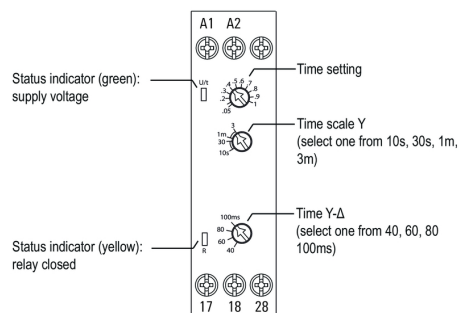
Wiring diagram



Dimensional drawing



Miscellaneous



Detailed drawing

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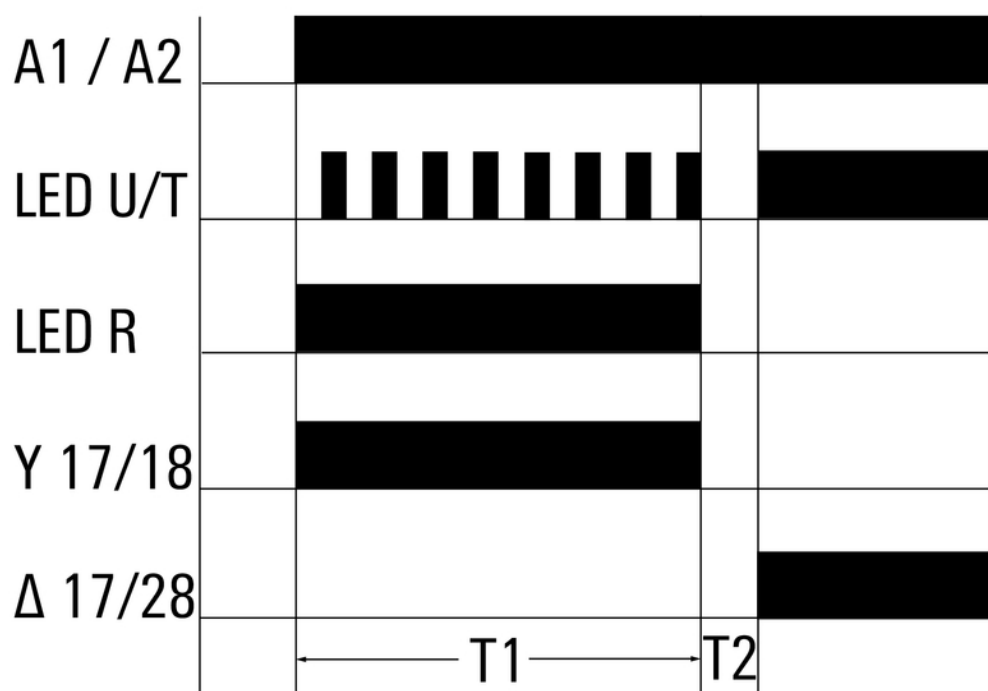
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star-delta



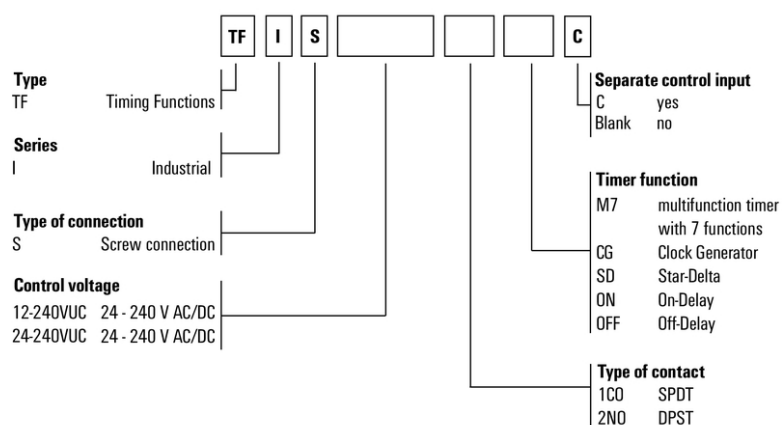
Time functions

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Mouser Electronics

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