TFIS 12-240VUC 1CO CG

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, Clock generator, Number of contacts: 1, CO contact, AgNi, Rated control voltage: 12...240 V UC -10 % / +10 %, Continuous current: 8 A, Screw connection
Order No.	2697260000
Type	TFIS 12-240VUC 1CO CG
GTIN (EAN)	4050118705287
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	60 mm	Depth (inches)	2.362 inch
Height	87 mm	Height (inches)	3.425 inch
Net weight	89 g	Width	17.5 mm
Width (inches)	0.689 inch		

Temperatures

Storage temperature	-25 °C...70 °C	Operating temperature	-25 °C...55 °C
Humidity	15...85 % rel. humidity, no condensation		

Control side

Basic accuracy	± 1 % (of scale-end value)	Max. reset time after voltage interruption	100 ms
Min. pulse duration	100 ms	Power rating	4 VA, 1.5 W
Rated control voltage	12...240 V UC - 10 % / + 10 %	Repeat accuracy	< 0.5 % or ±5 ms
Setting tolerance	5 %	Status indicator	LED green (U/t): flashes slowly when time t1 runs, flashes quickly when time t2 runs, lights permanently when supply voltage is applied, LED yellow (R): relay closed
Time ranges	0.05 s - 1 s, 0.5 s - 10 s, 3 s - 60 s, 30 s - 10 min, 3 min - 1 h, 30 min - 10 h, 5 h - 100 h		

Load side

AC switching capacity (resistive), max.	2000 VA	Continuous current	8 A
DC switching capacity (resistive), max.	240 W	Max. switching voltage, AC	250 V
Max. switching voltage, DC	30 V	Min. switching power	10 mA @ 12 V, 100 mA @ 5 V
Rated switching voltage	250 V AC		

Contact data

Contact type	1 CO contact (AgNi)	Electrical service life, DC coil	$2x10^5$ switching cycles (1000 VA ohm load)
Mechanical service life	20 x 10^6 switching cycles		

General data

Rail	TS 35	Test button	No
Mechanical switch position indicator	No	Colour	black
Resistance to vibration EN 61812-1	10 Hz...60 Hz: 0.15 mm, 60 Hz...150 Hz: 2 g		

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Insulation coordination

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	Pollution severity	2
Protection degree	IP20	Rated voltage	300 V
Surge voltage category	III		

Further details of approvals / standards

Certificate no. (cULus)	E360862

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	1 Nm	Clamping range, rated connection	2.5 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	4 mm²
Wire connection cross section AWG, min.	AWG 20	Wire connection cross section AWG, max.	AWG 12
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	4 mm²
Wire connection cross section, finely stranded, min.	0.5 mm²	Wire connection cross section, finely stranded, max.	4 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 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.	2.5 mm²
Blade size	size PZ1		

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

ROHS	Conform
UL File Number Search	E360862

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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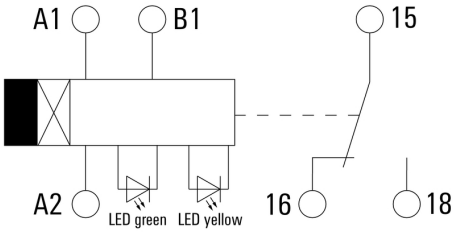
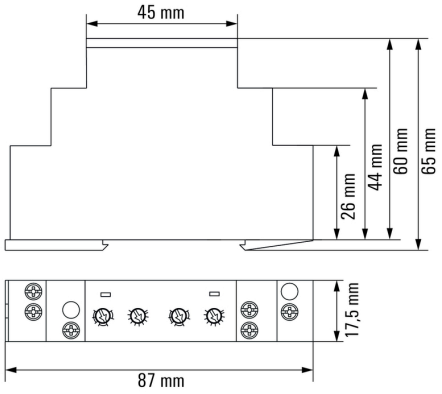
Drawings

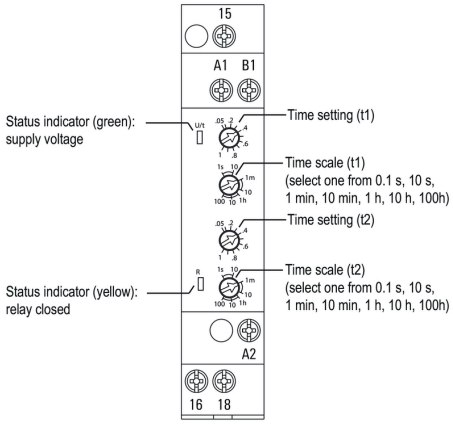
Wiring diagram



Dimensional drawing



Miscellaneous



Detailed drawing

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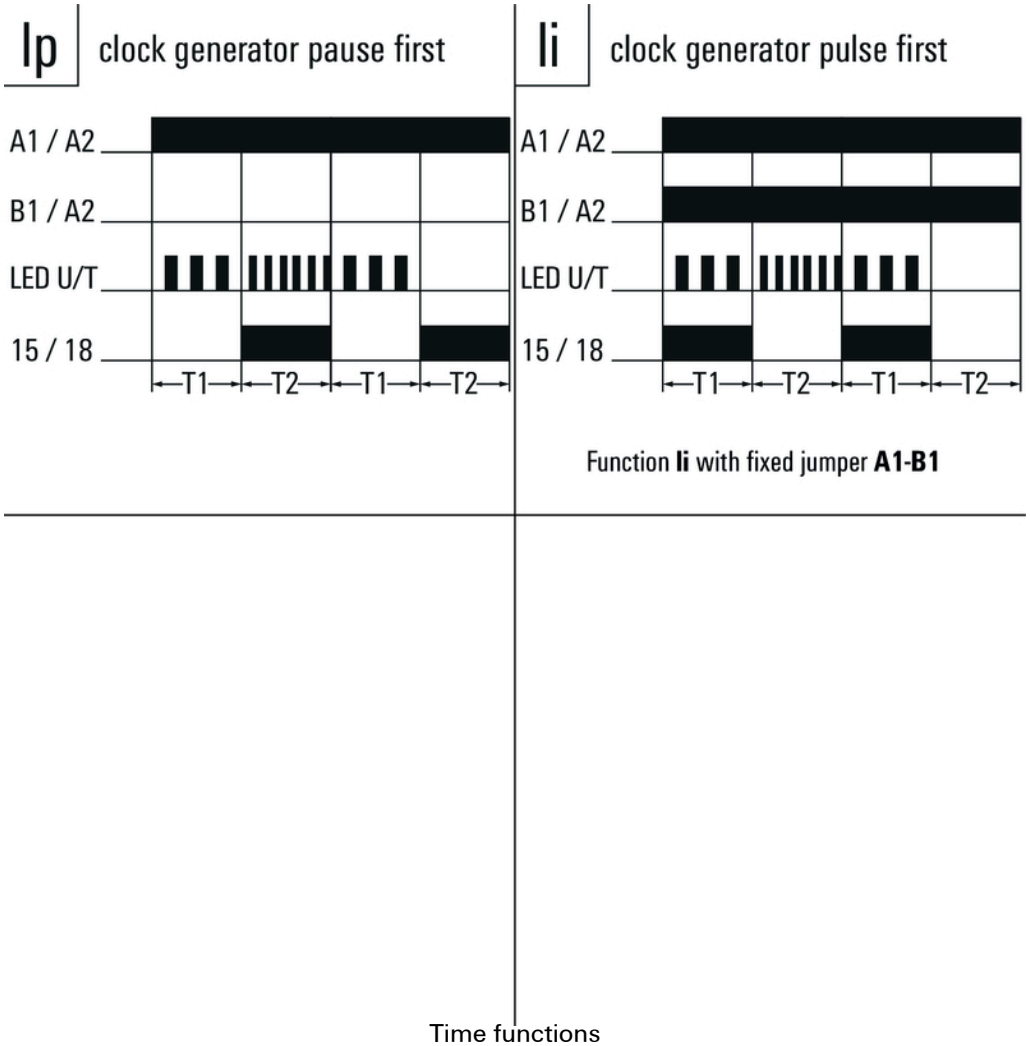
Drawings

Graph



Time functions

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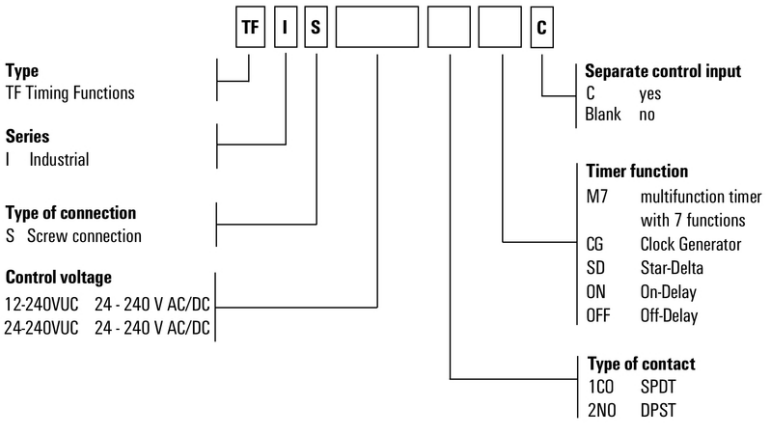
Drawings

Type codes



Miscellaneous

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