

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 |
| Width | 17.5 mm | Width (inches) | 0.689 inch |
| Net weight | 74 g | | |

Temperatures

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

Control side

| | | | |
|-----------------------|---|--|--|
| Rated control voltage | 12...240 V UC -10 % / +10 % | Power rating | 4 VA, 1.5 W |
| 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 |
| Setting tolerance | 5 % | Max. reset time after voltage interruption | 100 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 | 8 A |
| Max. switching voltage, AC | 250 V | Max. switching voltage, DC | 30 V |
| AC switching capacity (resistive), max. | 2000 VA | DC switching capacity (resistive), max. | 240 W |
| 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 | Min. switching power | 10 mA @ 12 V, 100 mA @ 5 V |

General data

| | | | |
|--------------------------------------|---|-----------------------------|-------|
| Design | Installation housing; 1TE | Suitable for front mounting | No |
| Rail | TS 35 | Test button available | 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 | | |

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 |
|-------------------------|---------|

Creation date September 18, 2022 1:29:19 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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Technical data

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 PZ 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 |

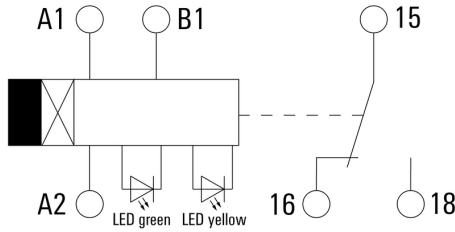
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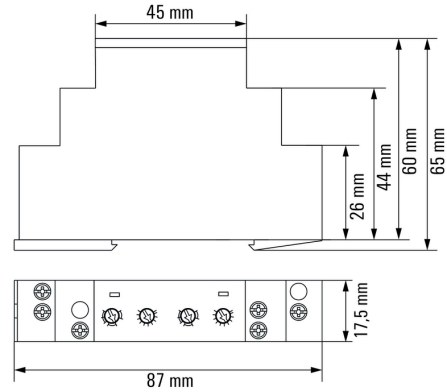
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Drawings

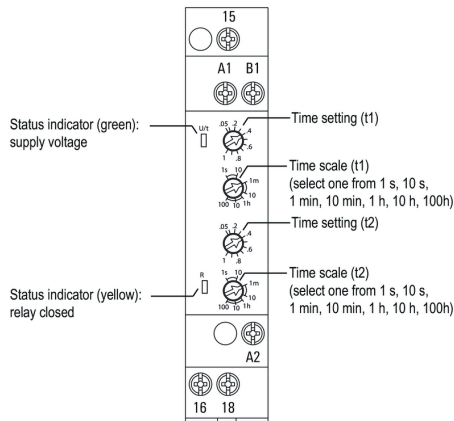
Wiring diagram



Dimensional drawing



Miscellaneous



Detailed drawing

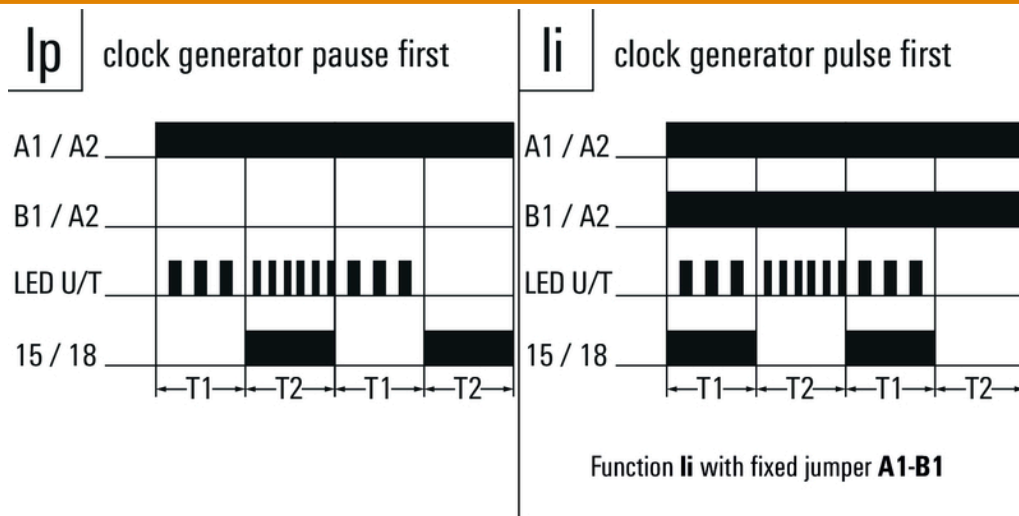
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Drawings

Graph



Time functions

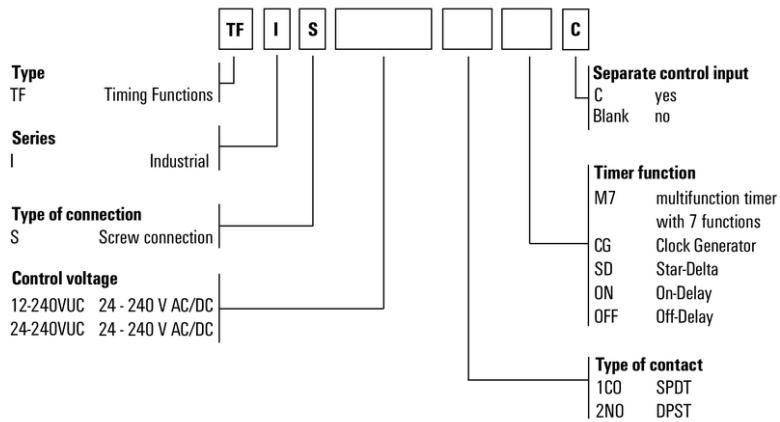
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Drawings

Type codes



Miscellaneous

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