Data sheet

# TFIS 24-240VUC 1CO ON

**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 TFIS-Relays 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, On-delay timing relay, Number of contacts: 1, CO contact, AgNi, Rated control voltage: 24...240 V UC -15 % / +10 %, Continuous current: 8 A, Screw connection |
| Order No. | 2697280000 |
| Type | TFIS 24-240VUC 1CO ON |
| GTIN (EAN) | 4050118705294 |
| Qty. | 1 items |



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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 60 mm | Depth (inches) | 2.3622 inch |
| Height | 87 mm | Height (inches) | 3.4252 inch |
| Width | 17.5 mm | Width (inches) | 0.689 inch |
| Net weight | 55 g | | |

### Temperatures

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

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

### Control side

| | | | |
|---|---|---|---|
| Rated control voltage | 24...240 V UC -15 % / +10 % | Power rating | 4 VA, 1.5 W |
| Status indicator | LED green (U/t): flashes when time runs, lights permanently with supply voltage 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 | ±6% (of scale-end value, for time range 0.05 s - 1 s), ±1% (of scale-end value, for all other time ranges) | 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 | 2x105 switching cycles (1000 VA ohm load) |
| Mechanical service life | 20 x 106 switching cycles | Min. switching power | 10 mA @ 12 V, 100 mA @ 5 V |

### General data

| | |
|---|---|
| Design | Installation housing; 1TE |
| Suitable for front mounting | No |



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| | | |
|---|---|---|
| Mounting rail | TS 35 | |
| Test button available | No | |
| Mechanical switch position indicator | No | |
| Colour | black | |
| UL 94 flammability rating | V-0 | |
| UL94 flammability rating component | Component | Housing |
| | UL94 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 |

### 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 8.0 | EC001439 | ETIM 9.0 | EC001439 |
| ETIM 10.0 | EC001439 | ECLASS 14.0 | 27-37-16-05 |
| ECLASS 15.0 | 27-37-16-05 | | |



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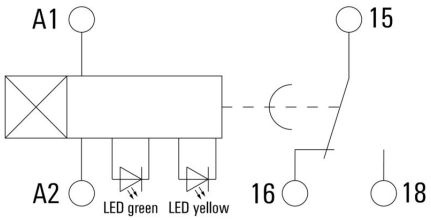
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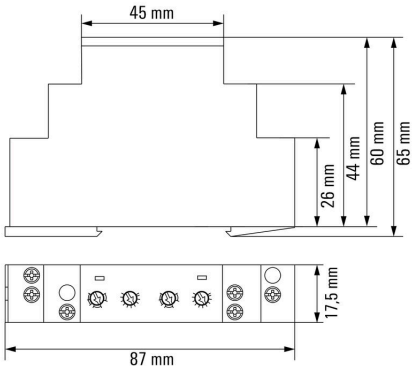
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# Drawings

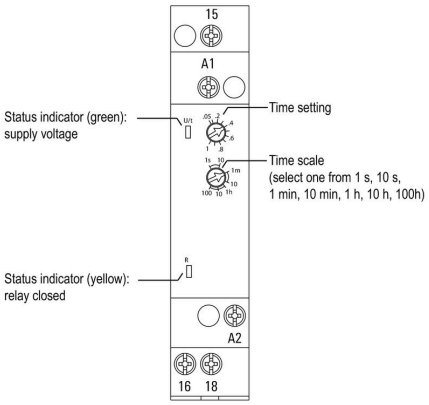
### Wiring diagram




### Dimensional drawing




### Miscellaneous




Detailed drawing



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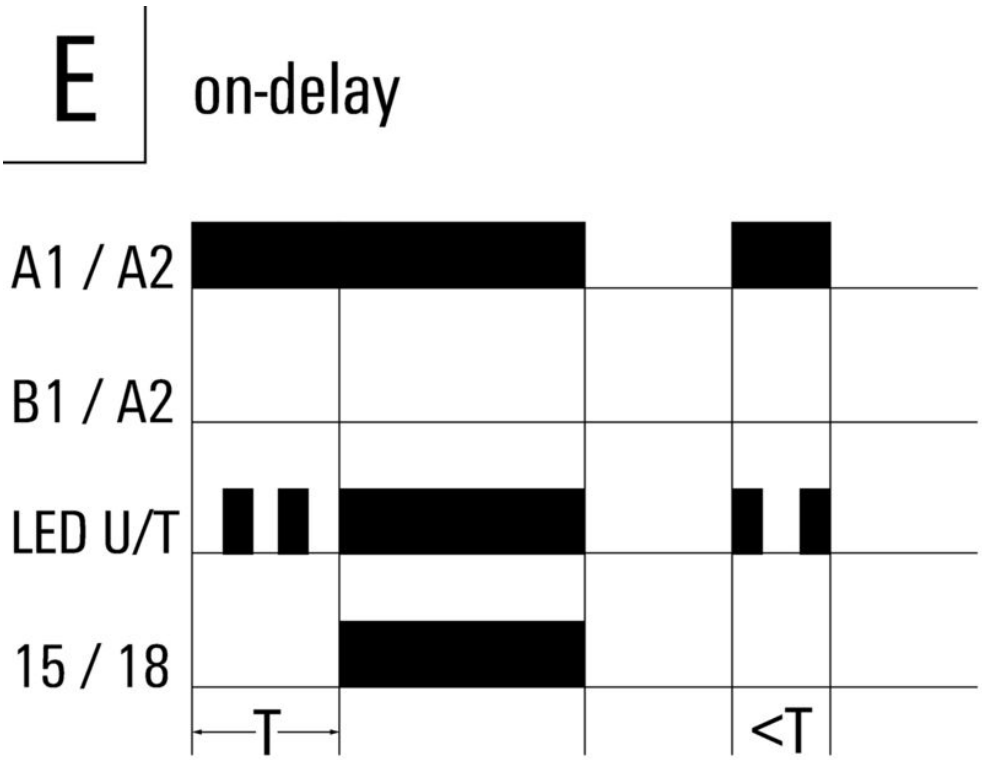
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## Drawings

### Graph




Time functions



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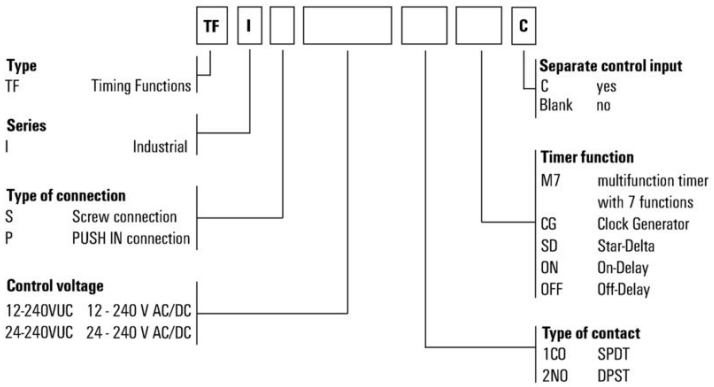
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## Drawings

### Type codes




Miscellaneous



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