

TFIS 24-240VUC 1CO OFFC**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, Off-delay timing relay, with separate control input, Number of contacts: 1, CO contact, AgNi, Rated control voltage: 24...240 V UC -15 % / +10 %, Continuous current: 8 A, Screw connection |
| Order No. | 2697290000 |
| Type | TFIS 24-240VUC 1CO OFFC |
| GTIN (EAN) | 4050118706055 |
| 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 | 71 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 | 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 | 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 |
| Version | with separate control input | 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 | | |

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Technical data

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 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 | ETIM 9.0 | 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 | ECLASS 13.0 | 27-37-16-05 |

Approvals

Approvals



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

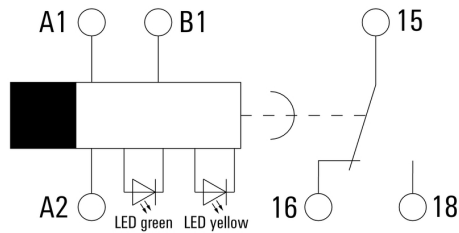
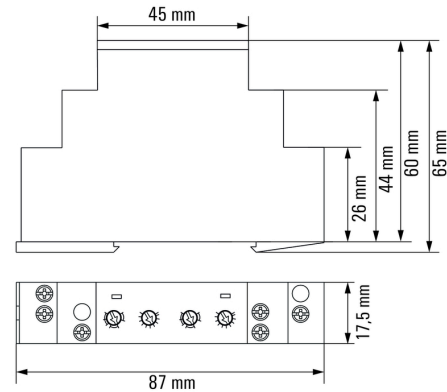
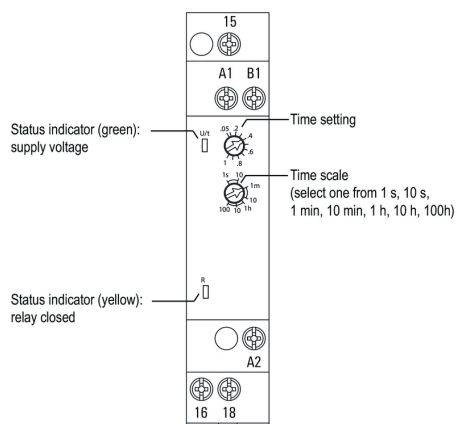
Downloads

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

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Drawings
Wiring diagram

Dimensional drawing

Miscellaneous


Detailed drawing

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Accessories

Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6/15 K MC NE GE | Version |
| Order No. | 1880130000 | ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478910 | |
| Qty. | 200 pc(s). | |
| Type | ESG 6/15 K MC NE WS | Version |
| Order No. | 1880100000 | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781 | |
| Qty. | 200 pc(s). | |

ESG 6/17



Guaranteed long service life: ESG

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

Your benefits with MultiMark

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

| | | |
|------------|----------------------------|---------------------------------------|
| Type | ESG 6/17 MM WS | Version |
| Order No. | 2005100000 | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728 | |
| Qty. | 3,000 pc(s). | |

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Accessories

Crosshead screwdriver Pozidriv



VDE insulated crosshead screwdriver type Pozidriv SDIK PZ DIN 7438, ISO 8764/2-PZ, output to ISO 8764-PZ, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDIK PZ1 X 80 | Version |
| Order No. | 2749920000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118897227 | |
| Qty. | 1 pc(s). | |

Blank



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- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ESG 6/17 K MC NE WS | Version |
| Order No. | 1880120000 | ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478804 | |
| Qty. | 200 pc(s). | |
| Type | ESG 6/17 K MC NE GE | Version |
| Order No. | 1880110000 | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798 | |
| Qty. | 200 pc(s). | |

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www.weidmueller.com**Accessories****ESG 6/15****Guaranteed long service life: ESG**

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- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

General ordering data

| | | |
|------------|----------------------------|---------------------------------------|
| Type | ESG 6/15 MM WS | Version |
| Order No. | 2619940000 | ESG, Device markers, 6 x 15 mm, white |
| GTIN (EAN) | 4050118626148 | |
| Qty. | 3,000 pc(s). | |

Crosshead screwdriver, Pozidrive

VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDIK SLIM PZ1 X 80 | Version |
| Order No. | 2749670000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118896411 | |
| Qty. | 1 pc(s). | |

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Accessories

Crosshead screwdriver Pozidriv



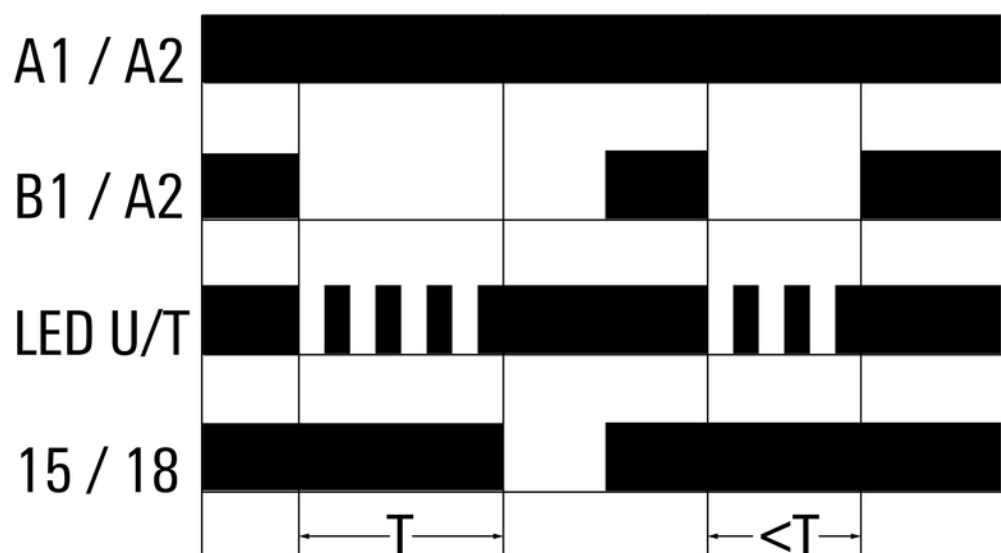
Crosshead screwdriver, Pozidriv, SDK PZ DIN 5262, ISO 8764/2-PZ, output to ISO 8764/1-PZ, ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDK PZ1 X 80 | Version |
| Order No. | 2749440000 | Screwdriver, Blade width (B): 80 mm, Blade thickness (A): |
| GTIN (EAN) | 4050118895667 | |
| Qty. | 1 pc(s). | |

Graph

R

 off-delay with control input

Time functions

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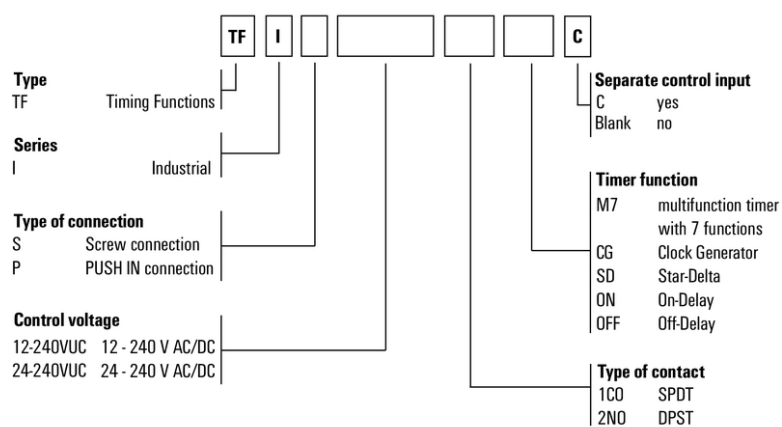
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Drawings

Type codes



Miscellaneous

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