

TFIS 12-240VUC 1CO M7C

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, Multifunction timing relay, with separate control input, Number of contacts: 1, CO contact, AgNi, Rated control voltage: 12...240 V UC -10 % / +10 %, Continuous current: 8 A, Screw connection
Order No.	2697250000
Type	TFIS 12-240VUC 1CO M7C
GTIN (EAN)	4050118705263
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	72 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	12...240 V UC -10 % / +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

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Version	with separate control input		
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
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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 PZ 1		

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		

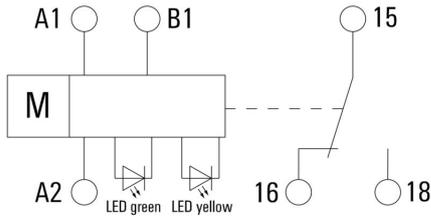
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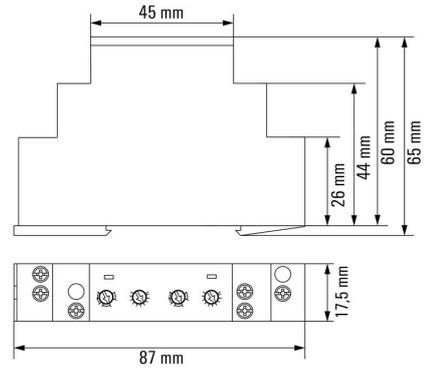
Drawings

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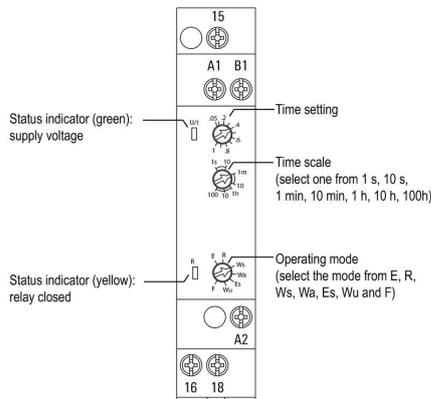
Wiring diagram



Dimensional drawing

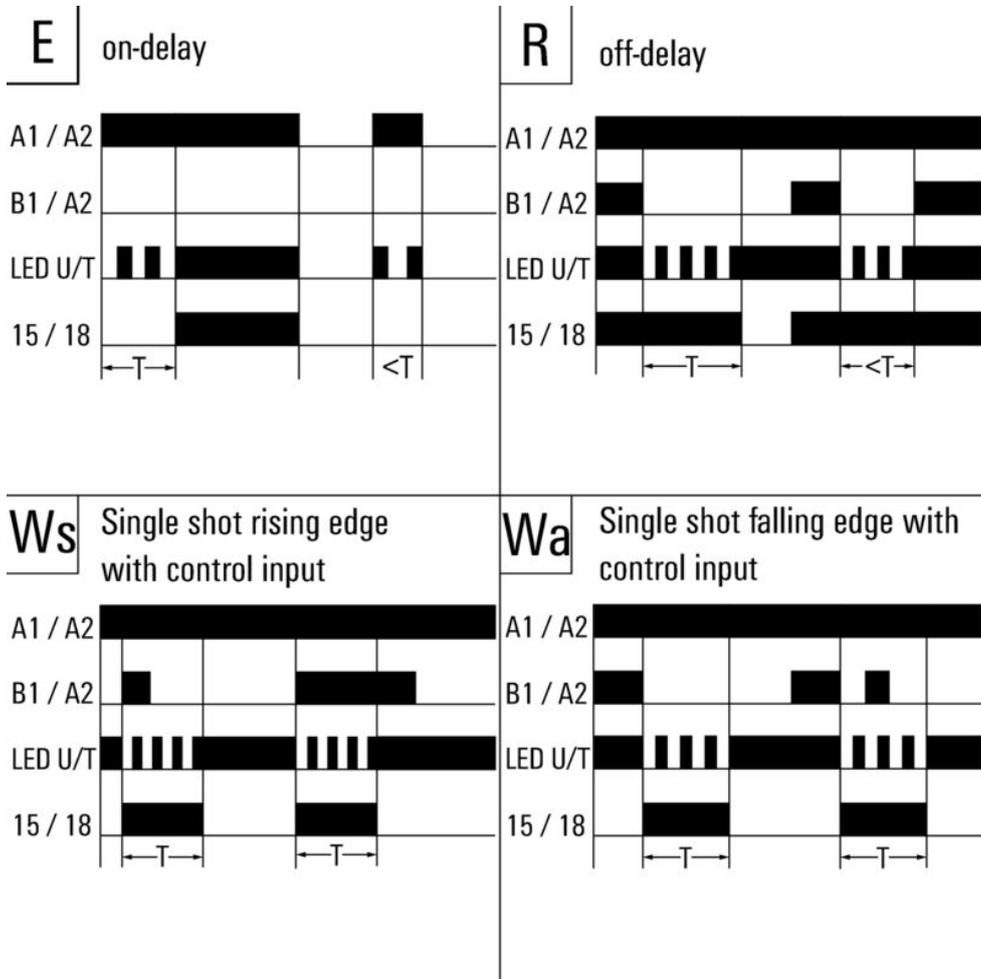


Miscellaneous



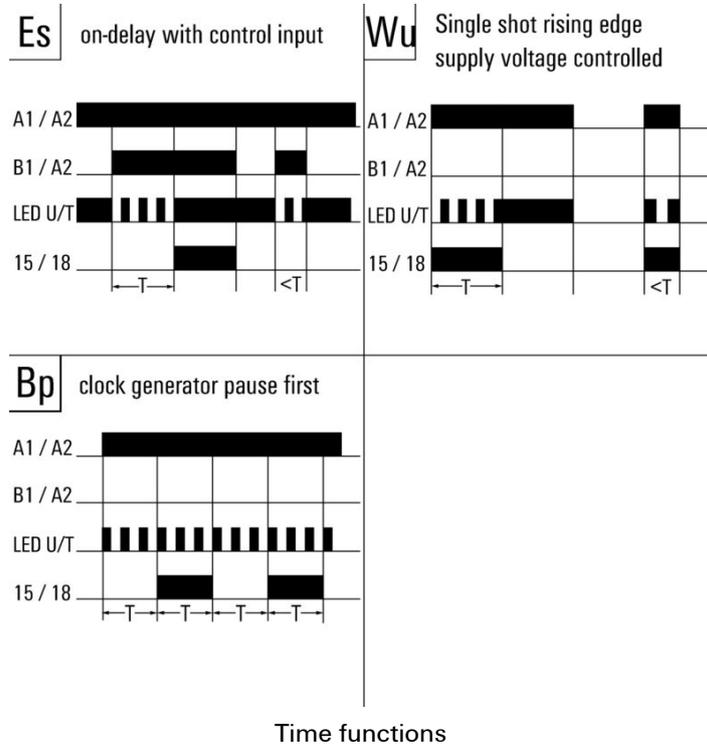
Detailed drawing

Graph

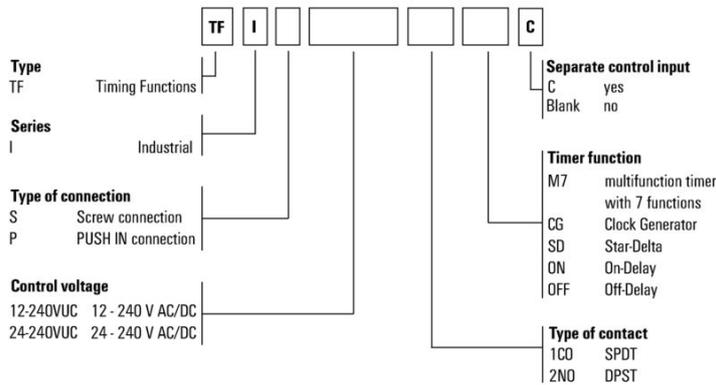


Time functions

Graph



Type codes



Miscellaneous

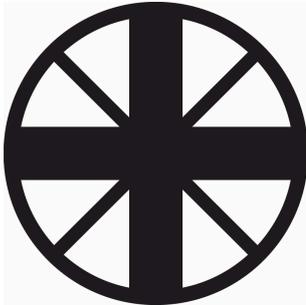
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Accessories

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): 14.5 mm, 80 mm, Blade thickness (A): 1	
GTIN (EAN)	4050118895667		
Qty.	1 ST		
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 ST		

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 ST		

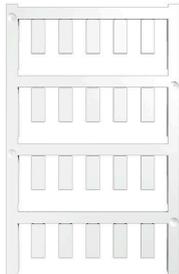
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Accessories

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 ST	
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 ST	
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 ST	
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 ST	

ESG 6/15



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 6/15 MM WS	Version
Order No.	2619940000	ESG, Device markers, 6 x 15 mm, white
GTIN (EAN)	4050118626148	
Qty.	3000 ST	

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ESG 6/17



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- 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.	3000 ST		