TFIS 12-240VUC 1CO CG

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, 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 items

Data sheet

TFIS 12-240VUC 1CO CG

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	55.3 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 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	±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

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Technical data

Suitable for front mounting	No
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

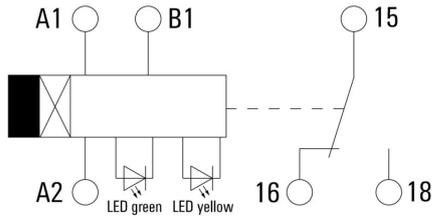|	
Certificate no. (cULus)	E360862

Connection data

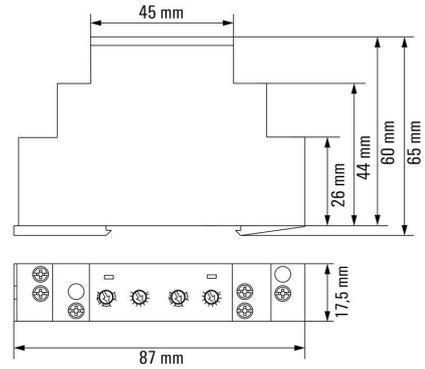|			
Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, max.	1 Nm	Clamping range, rated connection	2.5 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	4 mm²
Wire connection cross section AWG, min.	AWG 20	Wire connection cross section AWG, max.	AWG 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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Drawings

Wiring diagram

Dimensional drawing

Miscellaneous
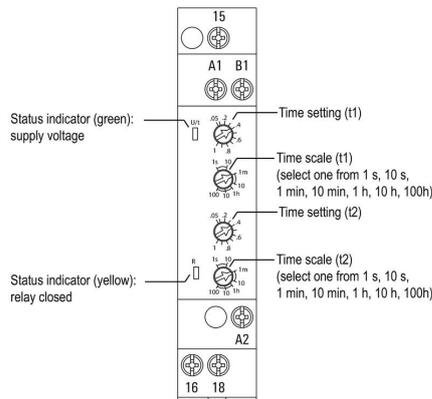
Detailed drawing
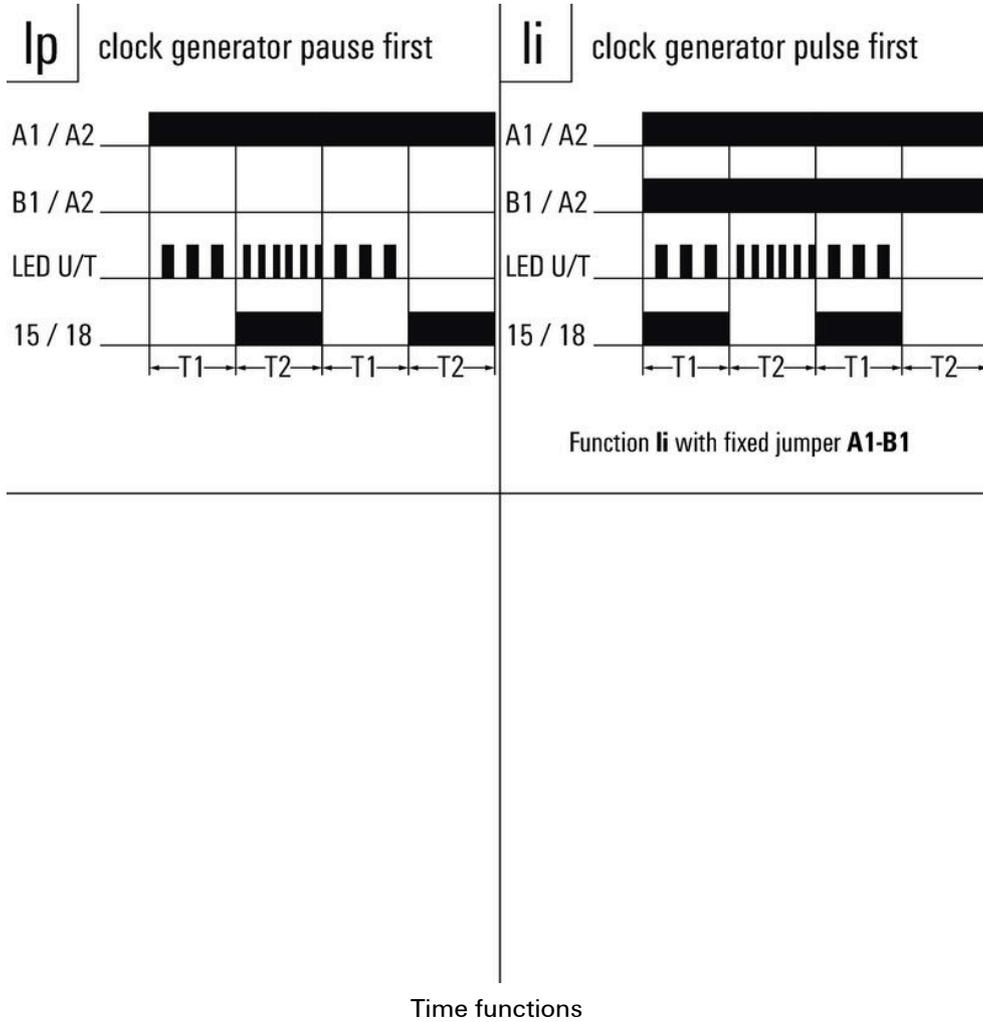
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Drawings

Graph

Time functions

Drawings

Type codes

Type
TF   Timing Functions

Series
I   Industrial

Type of connection
S   Screw connection
P   PUSH IN connection

Control voltage
12-240VUC   12 - 240 V AC/DC
24-240VUC   24 - 240 V AC/DC

Separate control input
C   yes
Blank   no

Timer function
M7   multifunction timer
           with 7 functions
CG   Clock Generator
SD   Star-Delta
ON   On-Delay
OFF   Off-Delay

Type of contact
1CO   SPDT
2NO   DPST
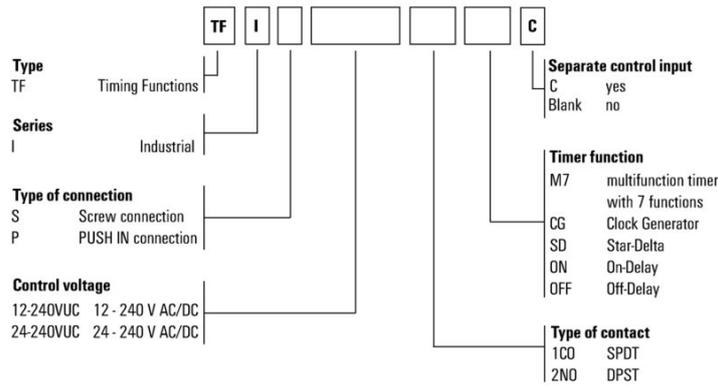
Miscellaneous

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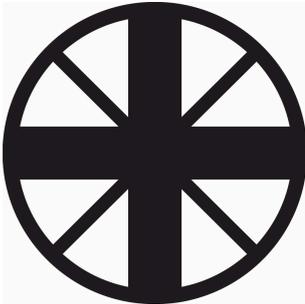
VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

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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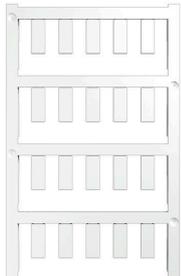
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Accessories

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.	3000 ST	