

# ETD-BL-1T-F- 10S-SP - Timer relay

2917654

<https://www.phoenixcontact.com/us/products/2917654>

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Timer relay with flasher function (beginning with pulse) and an adjustable time range (0.1 s - 10 s), with spring-cage connection

The figure shows the ETD-BL-1T-F- 10S  
2917492 version

## Product description

Compact timer relay in 6.2 mm housing for controlling time sequences.

The time is set on the front of the device using a labeled thumbwheel, which is recessed to protect against accidental modification. A screwdriver is used to change the settings (blade width 2.5 mm).

The compact timer relays are available with different time ranges as well as with a screw, spring-cage, and push-in connection.

## Your advantages

- 6.2 mm narrow design width
- High level of setting accuracy thanks to labeled and illuminated thumb wheel

## Commercial data

Item number	2917654
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK6471
GTIN	4046356367806
Weight per piece (including packing)	66.7 g
Weight per piece (excluding packing)	50.9 g
Customs tariff number	85364900
Country of origin	DE

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## Technical data

### Product properties

Product type	Timer relay
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

### Insulation characteristics

Insulation	Safe isolation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Service life electrical	approx. $2 \times 10^5$ cycles at ohmic load, 1000 VA
Rated insulation voltage	300 V AC
Rated surge voltage	6 kV

### Input data

Input voltage range	24 V DC (19.2 V DC ... 30 V DC)
Nominal current typ.	15 mA (Relay ON) 7 mA (Relay OFF)
Function	F: Flashing beginning with pulse
Setting range time	0.1 s ... 10 s
Setting accuracy	$\leq 2.5$ % (of scale end value)
Repeat accuracy	$\leq 0.5$ % (From the measuring range final value)

### Control

Control pulse length	min. 50 ms
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### Output data

#### Switching

Contact switching type	1 floating changeover contact
Output fuse	6.3 A (fast-blow)

### Connection data

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 12

### Signaling

Status display	Green LED (POWER) Yellow LED (relay active)
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## Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

## Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing insulation material	Polyamide PA, self-extinguishing

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C
Permissible humidity (operation)	15 % ... 85 %

## Approvals

### CE

Certificate	CE-compliant
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### ATEX

Identification	⊕ II 3 G Ex nA nC IIC T4 Gc X
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### UL, USA/Canada

Identification	UL/C-UL Listed UL 508
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### GL

Identification	GL EMC 1 C
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## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.

### Noise emission

Standards/regulations	EN 61000-6-4
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## Standards and regulations

Standards/regulations	EN 50178
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## Mounting

Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
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Mounting position	any
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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