

# ETD-BL-1T-ON- 10S - Timer relay



2917379

<https://www.phoenixcontact.com/us/products/2917379>

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Timer relay with switch-on delay (voltage-controlled) and an adjustable time range (0.1 s - 10 s), with screw connection

## 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                          | 2917379                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C442                           |
| Product key                          | DK66ZZ                         |
| GTIN                                 | 4046356365734                  |
| Weight per piece (including packing) | 70 g                           |
| Weight per piece (excluding packing) | 36.27 g                        |
| Customs tariff number                | 85364190                       |
| 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           | Basic insulation |
| 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)<br>7 mA (Relay OFF)                |
| Function             | ON: With switch-on delay                            |
| 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 |
|----------------------|------------|

### Output data

#### Switching

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

### Connection data

|                                  |  |
|----------------------------------|--|
| Connection method                | Screw 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      | 30 ... 12  |
| Tightening torque                | 0.6 Nm ... 0.8 Nm<br>5 lb <sub>f</sub> -in. ... 7 lb <sub>f</sub> -in. |

### Signaling

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|                |                           |
|----------------|---------------------------|
| Status display | Green LED (POWER)         |
|                | Yellow LED (relay active) |

## Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 86 mm  |

## Material specifications

|  |                                  |
|--|----------------------------------|
| Color                                  | gray (RAL 7042)                  |
| 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 |
|-------------|--------------|

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

### ATEX

|                |                               |
|----------------|-------------------------------|
| Identification | ⊕ II 3 G Ex nA nC IIC T4 Gc X |
|----------------|-------------------------------|

### UL, USA/Canada

|                |                       |
|----------------|-----------------------|
| Identification | UL/C-UL Listed UL 508 |
|----------------|-----------------------|

### GL

|                |            |
|----------------|------------|
| Identification | GL EMC 1 C |
|----------------|------------|

## 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 |
|-----------------------|----------|

## Mounting

|                   |  |
|-------------------|--|
| Mounting type     | DIN rail mounting                                      |
| Assembly note     | on standard DIN rail NS 35 in accordance with EN 60715 |
| Mounting position | any  |

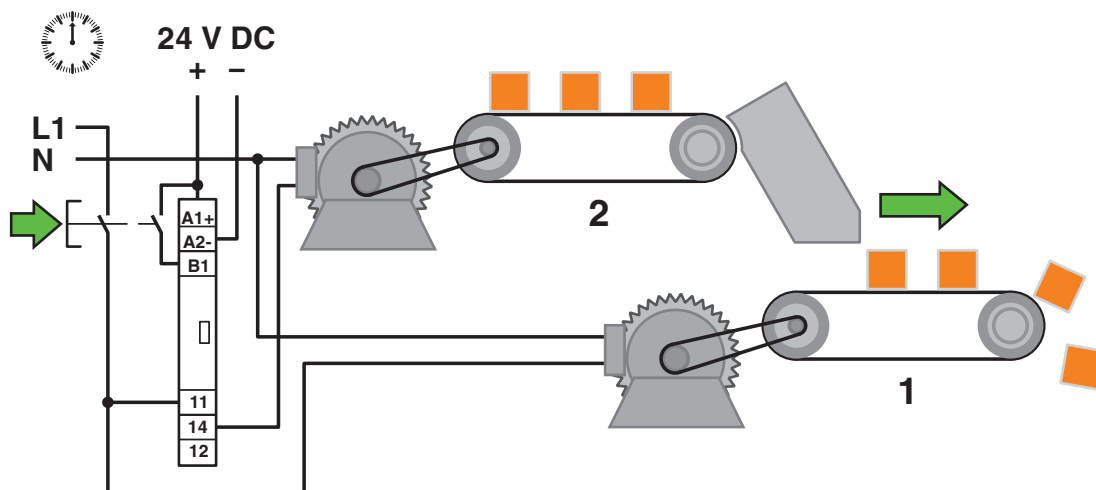
# ETD-BL-1T-ON- 10S - Timer relay

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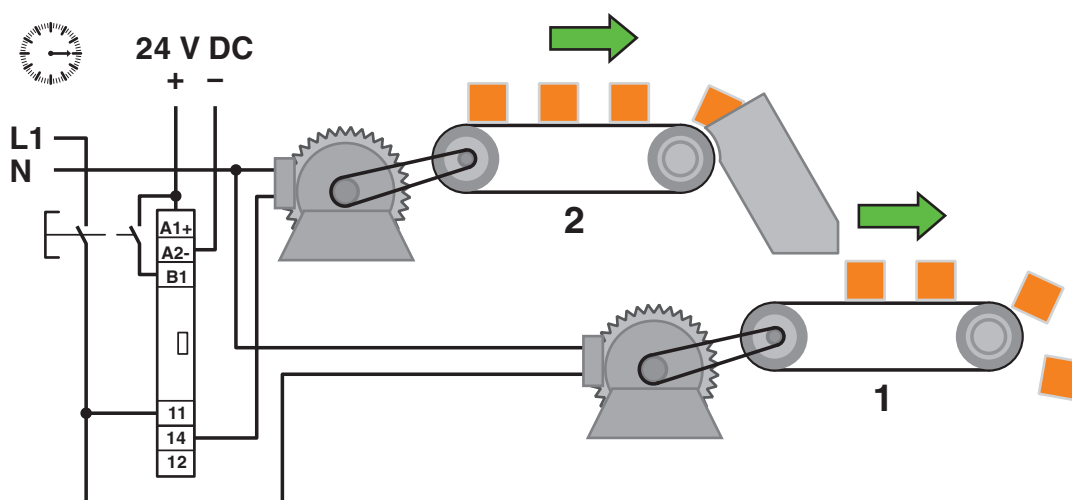
## Drawings

Application drawing



Conveyor belt 1 starts immediately

Application drawing



Conveyor belt 2 starts with a time delay

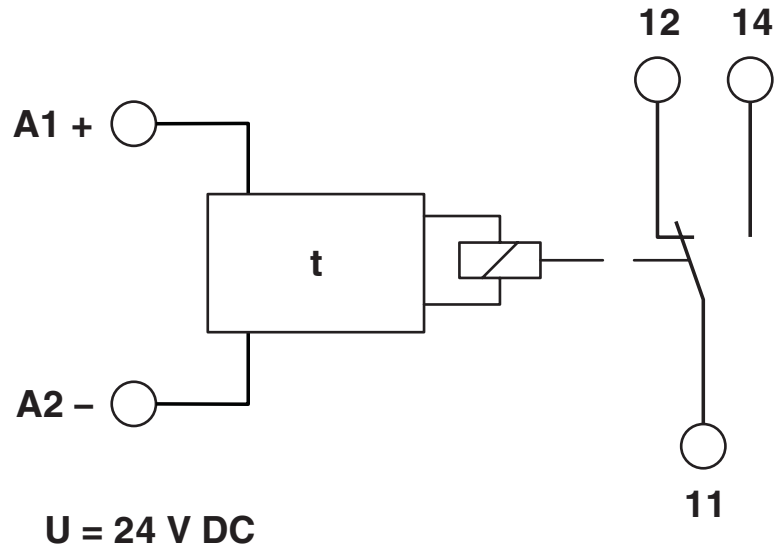
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Block diagram



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## Classifications

### ETIM

ETIM 9.0

EC001439

### UNSPSC

UNSPSC 21.0

39122300

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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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