

## Timer relay - ETD-FL-2T-DTI - 2866187

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Multi-functional timer relay with 7 functions and two adjustable time ranges (50 ms - 10 h), wide-range power supply unit, 2 PDTs

### Product description

Increasingly higher demands are being placed on safety and system availability – across all sectors. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry, but also in plant and automation technology. Demands on power engineering are also increasing constantly.

The timer relays in the ETD series can be used to control time sequences in production and process technology.

### Product Features

- Universal use thanks to wide range of functions and selectable time ranges
- Time ranges from a few milliseconds to several days
- 2 floating PDT outputs
- Variable supply voltage range



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	170.4 GRM
Custom tariff number	85364900
Country of origin	Austria

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
	-25 °C ... 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	15 % ... 85 %
Noise immunity	EN 61000-6-2

### Coil side

Input voltage range	24 V DC ... 240 V DC -20 % ... +25 %
	24 V AC ... 240 V AC -15 % ... +10 %
Temperature sensitivity	≤ 0.01 %/K
Function	Ip: Switched-mode beginning with the pause
	Ii: Switched-mode beginning with the pulse
	ER: With switch-on and release delay with control contact
	EWu: With switch-on delay and single shot leading edge, voltage controlled
	EWs: With switch-on delay and single shot leading edge with control contact
	WsWa: With single shot leading edge and single shot trailing edge with control contact
	Wt: Pulse sequence evaluation (retriggerable release delay)
Time setting range	50 ms ... 10 h (10 time end ranges)
Recovery time	500 ms

### Contact side

Contact type	2 floating PDT contacts
Maximum switching voltage	250 V AC (in acc. with IEC 60664-1)
Interrupting rating (ohmic load) max.	750 VA (3 A/250 V AC, module aligned, ≤ 5 mm spacing)
	1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing)
Output fuse	5 A (fast-blow)

### General

Status display	Green LED (POWER)
	Yellow LED (relay active)
Mechanical service life	Approx. $2 \times 10^7$ cycles
Nominal power consumption	2.5 VA (1 W)
Test voltage relay winding/relay contact	4 kV
Mounting position	any
Assembly instructions	on standard DIN rail NS 35 in accordance with EN 60715
Color	green
Housing insulation material	Polyamide PA, self-extinguishing

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## Technical data

### General

Permissible humidity (operation)	15 % ... 85 %
Nominal frequency	48 Hz ... 400 Hz
Rated insulation voltage	300 V (According to EN 50178)
Conformance	CE-compliant
UL, USA / Canada	UL/C-UL listed UL 508

### Connection data

Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Connection method	Screw connection

### Control contact

Connection name	Floating, basic isolation between connection and input/output/bridge Y1-Y2
Load capacity	Cannot carry load
Control pulse length	min. 50 ms (Only with Wt function: > 7 ms)

## Classifications

### eCl@ss

eCl@ss 4.0	27371103
eCl@ss 4.1	27371103
eCl@ss 5.0	27371701
eCl@ss 5.1	27371701
eCl@ss 6.0	27371790
eCl@ss 7.0	27371790

### ETIM

ETIM 2.0	EC001439
ETIM 3.0	EC001439
ETIM 4.0	EC001439
ETIM 5.0	EC001439

### UNSPSC

UNSPSC 6.01	30211920
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## Classifications

### UNSPSC

UNSPSC 7.0901	39121519
UNSPSC 11	39121519
UNSPSC 12.01	39121519
UNSPSC 13.2	39121519

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals

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Approvals submitted

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### Approval details

UL Listed 

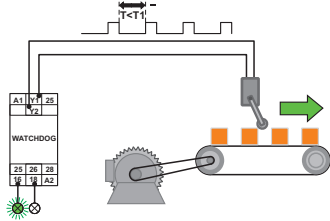
cUL Listed 

cULus Listed 

## Drawings

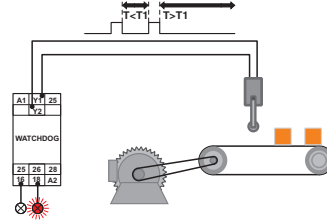
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Application drawing



Function: Pulse sequence evaluation

Application drawing



Message for incorrect pulse

Block diagram

