

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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.

Your advantages

- ✓ 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
GTIN	 4 046356 046619
GTIN	4046356046619

Technical data

Note

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

Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
---------------------------------	------------------

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

Technical data

Ambient conditions

	-25 °C ... 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	15 % ... 85 %
Degree of protection	IP40 (Housing)
	IP20 (Connection terminal blocks)
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)
Setting range time	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. 2×10^7 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
Permissible humidity (operation)	15 % ... 85 %
Nominal frequency	48 Hz ... 400 Hz

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

Technical data

Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.5 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section AWG	20 ... 14
Torque	1 Nm ... 1 Nm

Control contact

Connection name	Floating, basic isolation between connection and input/output/bridge Y1-Y2
Load capacity	Cannot carry load
Cable length	< 10 m
Control pulse length	min. 50 ms (only with Wt function: > 7 ms)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Standards/regulations	EN 50178
Rated insulation voltage	300 V
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III
Low Voltage Directive	Conformance with LV directive 2006/95/EC

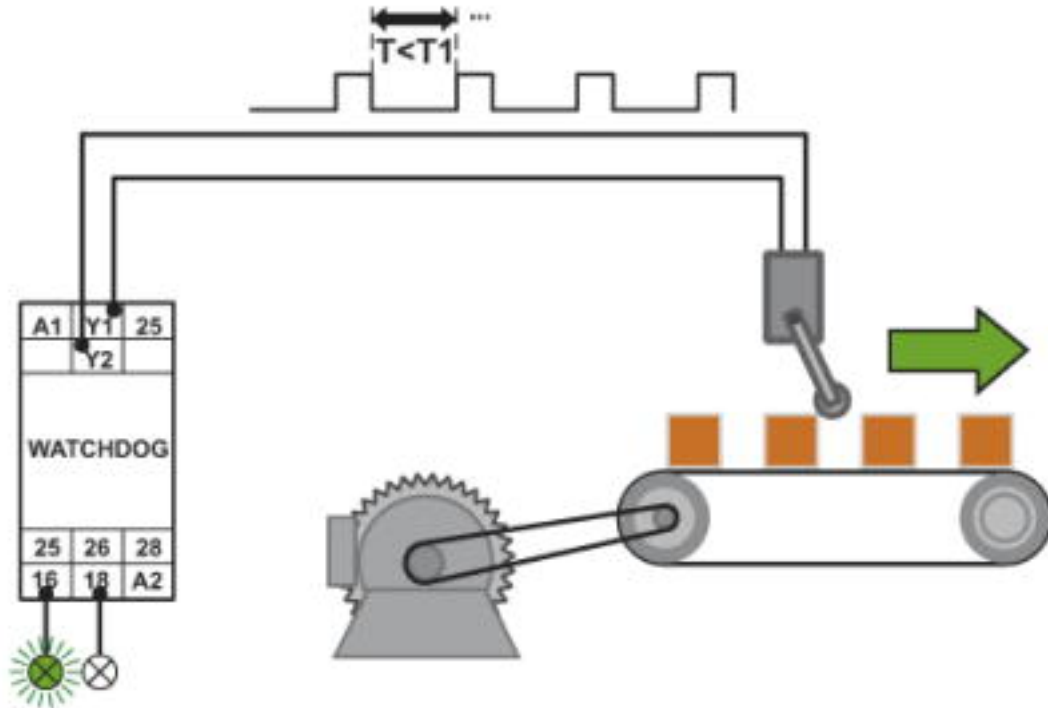
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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

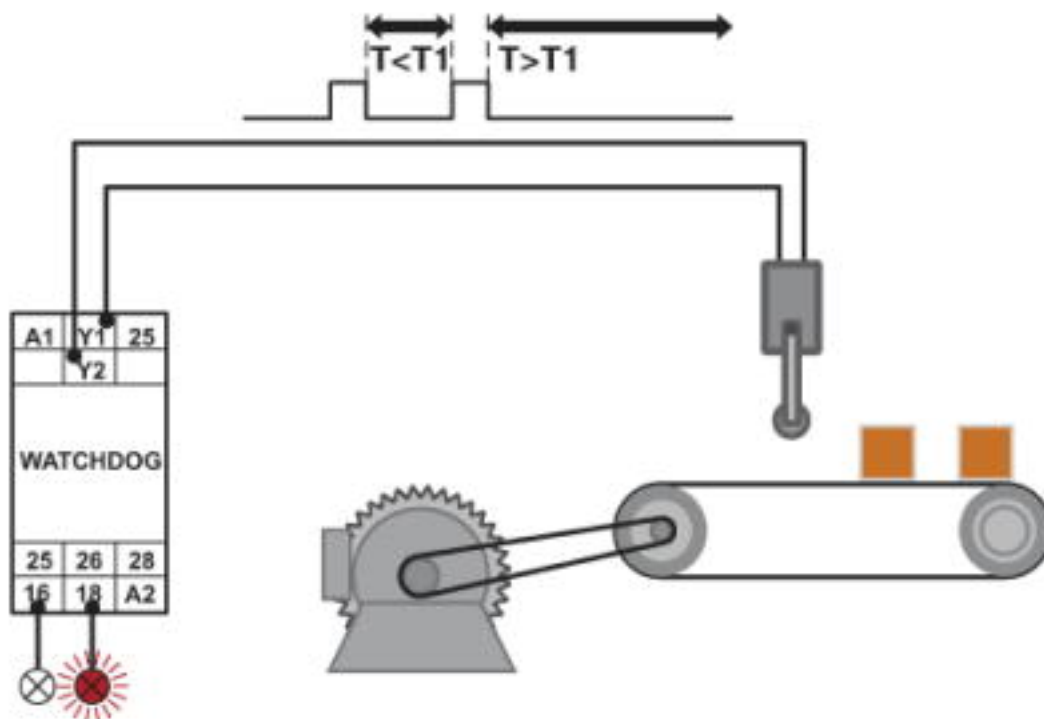
Application drawing



Function: Pulse sequence evaluation

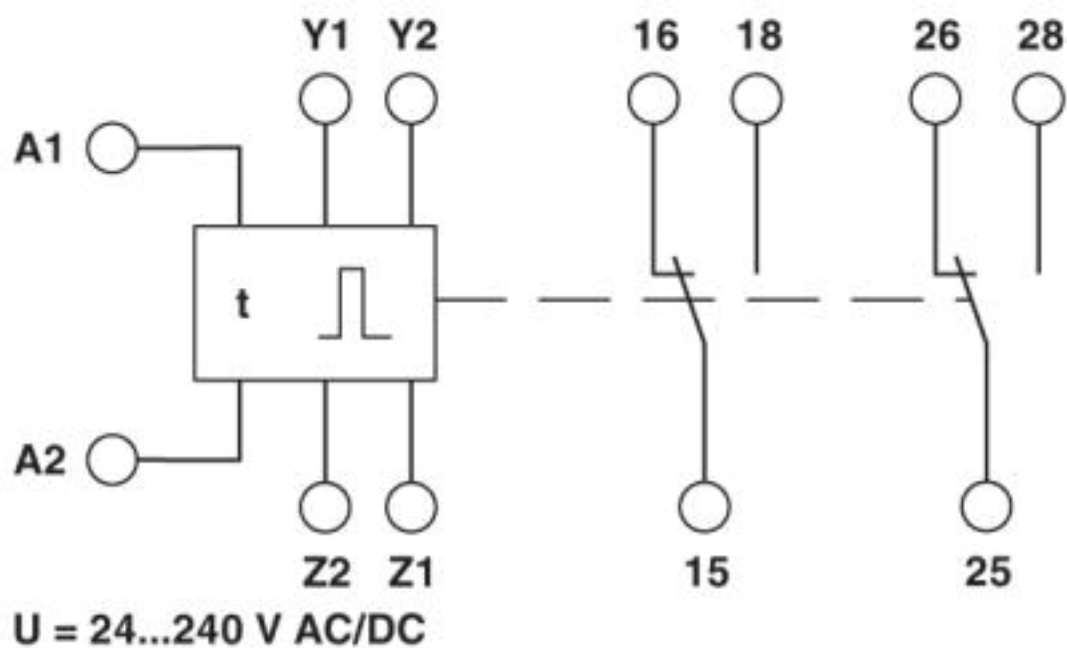
Timer relay - ETD-FL-2T-DTI - 2866187

Application drawing



Message for incorrect pulse

Block diagram



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

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

EAC



RU C-
DE.**08.B-00957

cULus Listed



Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>