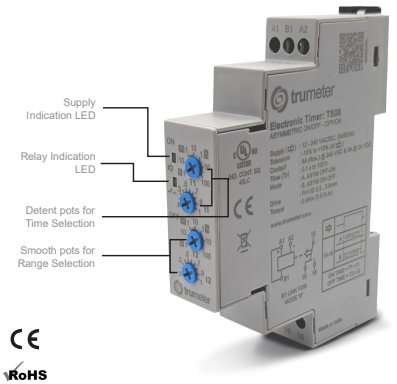
trumeter
innovation by design

TS08

ELECTRONIC TIMER

Asymmetric ON-OFF / OFF-ON



CE
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0393348-01 05/2025

TECHNICAL SPECIFICATIONS

Supply Characteristics	
Supply Voltage	12 - 240 VAC / DC
Supply Variation	-15% to +10% of
Frequency	50-60 Hz, (± 3 Hz)
Power Consumption (Typical)	6 VA
Relay O/P Characteristics	
Contact Arrangement	1 C/O Potential free contacts
Contact Rating (Resistive Load)	8A (Res.) @240V AC, 5A at 24 VDC
Contact Material	AgNi
Electrical Life	50,000 Operations min.
Mechanical Life	10,000,000 Operations min.
Feature Characteristics	
Timing Ranges	0.1 s; 1 s; 10 s; 1 min.; 10 min.; 1 h; 10 h; 100 h
Setting Accuracy	+/- 5% of full scale
Repeat Accuracy	+/- 1%
Mode Adjustment	Flush (refer to 'Functions Diagram'
LED Indication on front panel	Green LED for Power; Yellow LED for Relay
Mounting	Din-Rail
Dimensions (W x H x D)	18 x 90 x 66 (in mm)
Weight (Unpacked)	72 g
Humidity	95% Rh Non Condensing
Operating Temperature	-20˚C to +60˚C
Storage Temperature	-25˚C to +70˚C
Max. Operating Altitude	2000m
Housing	Flame retardant (UL 94-V0)
Degree and Protection	IP-20 for Terminal; IP-40 for Housing
Polution Degree	II
Isolation (I/P and O/P)	2KV
Isolation (Terminal and Casing)	2.5KV
Type of Insulation	Reinforced
Certifications	CE, ROHS
Initiate Time	Max. 100ms
Reset Time	Max. 200ms
EMI / EMC:	
Harmonic Current Emissions	IEC 61000-3-2 Class A
ESD	IEC 61000-4-2 Air Discharge-Level III, Contact Discharge-Level II
Radiated Susceptibility	IEC 61000-4-3 Level III
Electrical Fast Transient	IEC 61000-4-4 Level IV
Surge	IEC 61000-4-5 Level III
Conduct Susceptibility	IEC 61000-4-6 Level III
Voltage Dips and Interruptions (AC)	Level as per IEC 61812-1
Voltage Dips and Interruptions (DC)	Level as per IEC 61812-1
Conducted Emission	CISPR 11 Class B
Radiate Emission	CISPR 11 Class B

Terminal Details:

Ø3.5...3.8 mm	0.4 N.m (3.6 Lb.in)
	1 x 2.5 mm² Solid / Stranded Wire
AWG	1 x 24 to 12

Use Cu wire of 75˚C only.

AWG	Sq. mm.	Max. Current (A)
12	2.5	16*
14	2.0	15
16	1.5	10
18	1.0	7
20	0.75	5
22	0.5	3
24	0.2	2

***This maximum rating has been decided on the basis of maximum current capacity of the product.**

Note: Maximum current values are mentioned for resistive load.

TS08 Asymmetric On-Off / Off-On timer is manufactured to a high degree of precision and accuracy. The time settings are stepless and can be set with the knob.

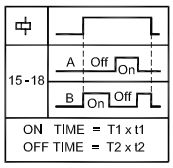
Features

- Asymmetric On-Off / Off-On Timer:
- 17.5mm wide 17.5mm wide
- Time setting fro:0.1 s; 1 s; 10 s; 1 min; 10 min; 1 h; 10 h; 100 h.
- LED status indicators: Power On (Green) and Relay status (Yellow).
- Cadmium free contact material.

Function Diagram

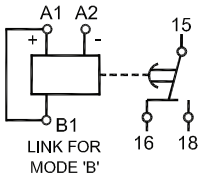
A) ASYMMETRIC OFF - ON :
If the link is not connected at A1-B1 and Supply is turned ON timing starts and Output Relay remains OFF for set time. After set OFF Time has elapsed, Output Relay turns ON and remains ON till the set ON time has elapsed and the cycle repeats.

B) ASYMMETRIC ON - OFF :
If the link is connected at A1-B1 and supply is turned ON, Output Relay turns On and Timing starts. Output Relay turns OFF after the Set ON time has elapsed and remains OFF till the Set OFF time has elapsed and the cycle repeats.



NOTE:
T1 and T2 are detent pots for Time selection
t1 and t2 are smooth pots for Range selection

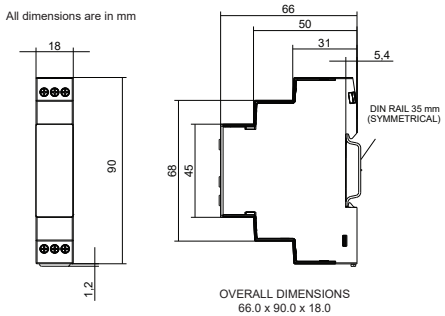
Connection Diagram



Mode Selection

MODE	SELECTION
ASYMMETRIC OFF-ON	Do not connect Link between A1 & B1
ASYMMETRIC ON-OFF	Connect Link between A1 & B1

Overall product dimensions and mounting details:



Installation

DIN-Rail Mounting:
The Timer should be mounted on 35 mm symmetrical DIN Rail.

Product Standard	IEC 61812-1	
Safety		
Test Voltage between I/P and O/P	IEC 60947-5-1/UL 508	2KV
Test Voltage between all terminals and enclosure	IEC 60947-5-1/UL 508	2.5KV
Impulse voltage between I/P and O/P	IEC 60947-5-1	4KV
Single Fault	IEC 61010-1	
Insulation Resistance	UL508	>50k Ω
Leakage Current	UL508	< 3.5 mA
Environmental		
Cold Heat	IEC 60068-2-1	
Dry Heat	IEC 60068-2-2	

E-Waste Regulatory notice:
Kindly treat, recycle or dispose of this equipment in an environmentally sound manner after End of Life, as per WEEE (Waste Electrical and Electronic Equipment) regulations or as per local norms.

⚠ Caution:

1. Always follow instructions stated in this product leaflet.
2. Before installation, check that the specifications agree with the intended application.
3. Installation to be done by skilled electrician.
4. Automation and Control devices must be properly installed so that they are protected against any risk of involuntary actuations.
5. Suitable dampers should be provided in case of excessive vibrations.
6. Use of 250 mA fuse in series with product is recommended.
7. The timers shall be placed in an enclosure that is minimum 200% of the size of the timer in the end use application.
8. Setting of all the potentiometers should be in clockwise direction only.
9. At power on to detect the proper mode, 100 ms (minimum) stable signal input should be present.
10. Keep at least 1 cm clearance from both sides while using this product.

NOTE

Product innovation being a continuous process, we reserve the right to alter specifications without any prior notice.