

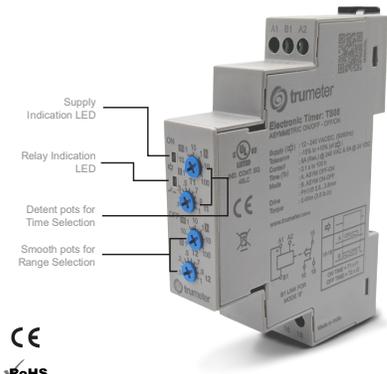
TECHNICAL SPECIFICATIONS

| Supply Characteristics | |
|-------------------------------------|---|
| Supply Voltage | 12 - 240 VAC / DC |
| Supply Variation | -15% to +10% of φ |
| 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 |
| Pollution 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 |

TS08

ELECTRONIC TIMER

Asymmetric ON-OFF / OFF-ON



039348-01 05/2025

Terminal Details:

| | |
|--|--|
|  Ø3.5...3.8 mm | 0.4 N.m (3.6 Lb.in) |
|  | 1 x 2.5 mm ² 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.

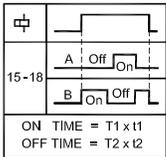
Function Diagram

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.

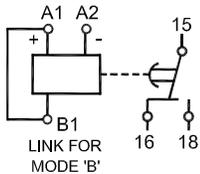
B) ASYMMETRIC ON - OFF :

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

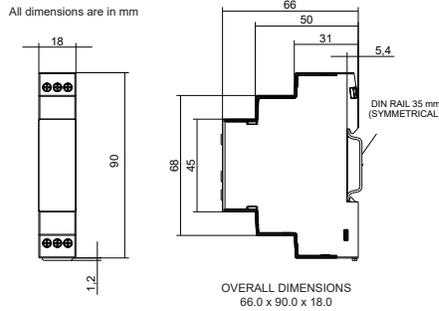
Connection Diagram



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.