

Terminal Protection to IP20

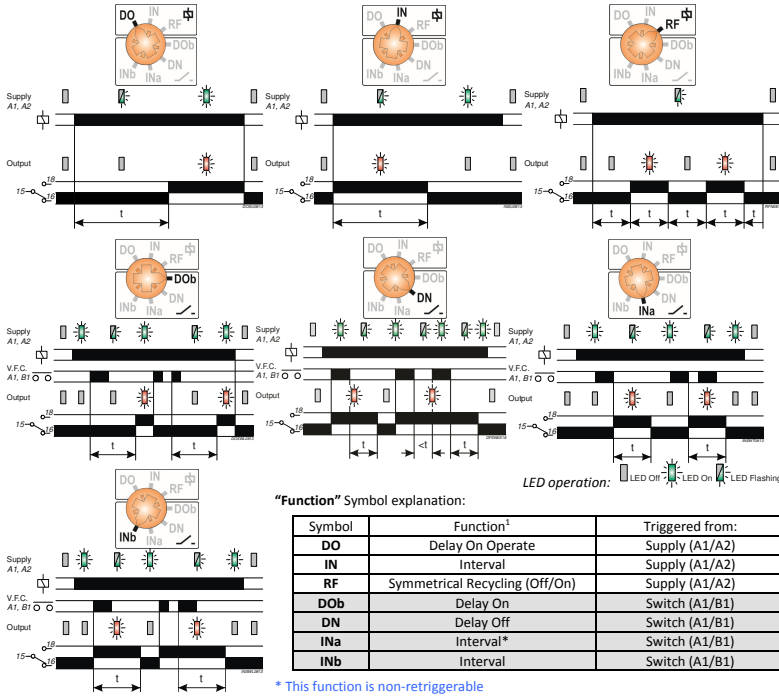


Dims: to DIN 43880
W. 17.5mm

- ***NEW*** 17.5mm DIN rail housing
- **7** Selectable functions (3 Supply Initiated, 4 Switch Initiated)
- **3** Switch initiated functions are re-triggerable (DOb, DN and INb)
- **7** Selectable time ranges (0.1 seconds – 100 hours)
- Fine adjustment of selected time range
- LED warning indication if function is changed whilst powered
- Switch initiated functions ideal for use in Watchdog circuits
- Multi-voltage input (12 – 230V AC/DC)
- 1 x SPDT relay output 8A
- Green LED indication for supply / timing status
- Red LED indication for relay status
- Conforms to IEC 61812



FUNCTION DIAGRAMS

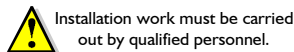


TECHNICAL SPECIFICATION

| | |
|---|--|
| Supply voltage U (A1, A2): | 12 – 230V AC/DC |
| Frequency range: | 48 - 63Hz (AC supplies) |
| Supply variation: | +/- 15% |
| Overvoltage category: | III (IEC 60664) |
| Rated impulse withstand voltage: | 4kV (1.2/50µs) IEC 60664 |
| Power consumption (max.): | 12V 24V 110V 230V |
| | AC: 0.3VA 0.4VA 1.3VA 3.4VA |
| | DC: 0.26W 0.24W 0.47W 0.95W |
| Timing functions (7): | |
| Supply initiated: | Delay On (DO), Interval (IN), Symmetrical Recycling Off/On (RF) |
| Switch initiated: | Delay On (DOb), Delay Off (DN), Interval (Trailing) (INa), Interval (Leading) (INb) |
| Timing ranges (7): | Seconds: Minutes: Hours: |
| | 0.1 – 1 0.1 – 1 0.1 – 1 |
| | 1 – 10 1 – 10 1 – 10 |
| | 10 – 100 |
| Reset time: | 100ms |
| Accuracy: | ± 1% of maximum full scale |
| Adjustment accuracy: | < 5% of maximum full scale |
| Repeat accuracy: | ± 0.5% at constant conditions (IEC 61812) |
| Drift with temperature: | ± 0.05% / °C |
| Drift with voltage: | ± 0.2% / V |
| External trigger input (A1 > B1): | Volt Free Contact, Open Collector |
| External loading: | Yes, between B1 and A2 (i.e. LED, Relay, Lamp) |
| Trigger threshold: | >75% of voltage present between A1 and A2 (auto-set) |
| Minimum trigger time: | AC: 60ms DC: 40ms (B1 terminal unloaded) |
| Maximum input frequency: | 10 Hz (with 50:50 duty cycle) |
| Maximum cable length: | 10m (between Timer and external switching device) |
| Power on indication / Timing ² : | Green LED |
| Relay status: | Red LED |
| Ambient temp: | -20 to +60°C |
| Relative humidity: | +95% |
| Output (15, 16, 18): | SPDT relay |
| Output rating: | AC1 250V 8A (2000VA) AC15 250V 5A (no), 3A (nc) DC1 25V 8A (200W) |
| Electrical life: | ≥ 150,000 ops at rated load |
| Dielectric voltage: | 2kV AC (rms) IEC 60947-1 |
| Rated impulse withstand voltage: | 4kV (1.2/50µs) IEC 60664 |
| Housing: | Orange flame retardant UL94 |
| Weight: | ≈ 60g |
| Mounting option: | On to 35mm symmetric DIN rail to BS EN 60715 or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit. |
| Terminal conductor size | ≤ 2 x 2.5mm ² solid or stranded |
| Approvals: | Conforms to IEC 61812. |

INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required.



Setting the unit.

- Set the "Function" selector ⑤ to the required position¹.
- Set the "Range" ④ to the required position (depending on whether seconds, minutes or hours are required), then set the "Set %" adjustment ③ as required. The "Set %" is a % of the selected range, so 60% of the 1 – 10 hour range will give 6 hours.

Applying power.

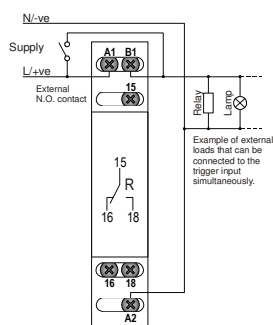
- Apply power and the green LED ① will illuminate or start flashing depending on Function selected. If a Switch initiated function is selected, the LED will begin flashing upon closing of the external input.
- The red relay LED ② will illuminate to indicate the relay is in the energised state.

Note:

¹ If the "Function" selector is changed whilst the power is applied, the relay will remain in its current state and the green LED will flash at a faster rate. Power must be removed and re-applied for the new Function to operate.

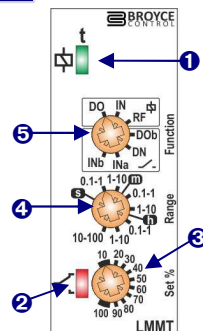
² In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change. The dip / interruption duration and levels are defined in the product standard.

CONNECTION DIAGRAM



SETTING DETAILS

1. Power supply status / Timing (Green) LED
2. Relay output status (Red) LED
3. "Set %" adjustment
4. Time delay "Range" selector
5. Timing "Function" selector



DIMENSIONS

