

 \Box

Type: LMMT

Multifunction, Multi-voltage Timer

Terminal Protection to IP20

43880



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 (24 - 230V AC/12 - 230V DC)

1 x SPDT relay output 8A

Green LED indication for supply / timing status

Red LED indication for relay status

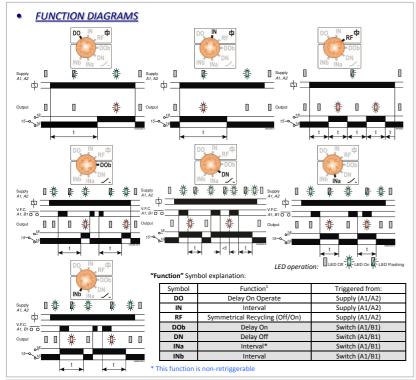
 \Box Conforms to IEC 61812

Wiring Information and Product Demonstration Videos can also be found on our YouTube channel

https://www.youtube.com/user/BroyceControlLtd







INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY.

Installation work must be carried out by qualified personnel.

Connect the unit as required. Setting the unit.

Set the "Function" selector 6 to the required position.

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

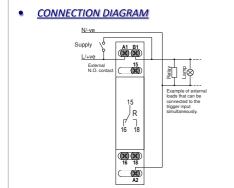
- Apply power and the green LED 1 will illuminate or start flashing depending on Function selected. If a Switch initiated function is selected, the LED will begin flashing upon closing of the external input.
- The red relay LED 2 will illuminate to indicate the relay is in the energised state.

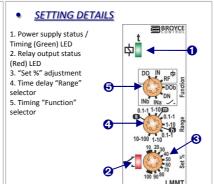
Note:

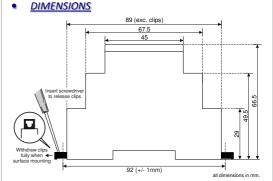
ster rate. Power must be removed and re-applied for the new Function to operate.

. In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interr providina the state of the output relay does not chanae. The dip / interruption duration and levels are defined in th

TECHNICAL SPECIFICATION Supply voltage U (A1, A2): 24 - 230V AC/12 - 230V DC 48 - 63Hz (AC supplies) Supply variation: AC: +15/-20%, DC: +/-15% Overvoltage category: III (IEC 60664) Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664 230V 110V Power consumption (max.): 12V 24V 0.3VA 0.4VA 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): Minutes: Hours: Seconds: 0.1 - 1 1 - 10 0.1 - 1 1 - 10 1-10 10 - 100 100ms Reset time: 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 Yes, between B1 and A2 (i.e. LED, Relay, Lamp) External loading: Trigger threshold: >75% of voltage present between A1 and A2 (auto-set) Minimum trigger time: AC: 60ms DC: 40ms (B1 terminal unloaded) 10 Hz (with 50:50 duty cycle) Maximum input frequency: Maximum cable length: 10m (between Timer and external switching device) Power on indication / Timing²: Green LED Relay status Red LED Ambient temp: -20 to +60°C Relative humidity +95% Output (15. 16. 18) SPDT relay 250V 8A (2000VA) Output rating: AC1 AC15 250V 5A (no), 3A (nc) DC1 25V 8A (200W) Electrical life: ≥ 150,000 ops at rated load 2kV AC (rms) IEC 60947-1 4kV (1.2/50μS) IEC 60664 Dielectric voltage: Rated impulse withstand voltage: 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 2.5mm² solid or stranded Approvals Conforms to IFC 61812 CUL US LISTED IND. CONT. EQ.







CE, C-tick Cand RoHS Compliant.

80MHz - 2.7GHz). Emissions: EN 61000-6-4

EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m