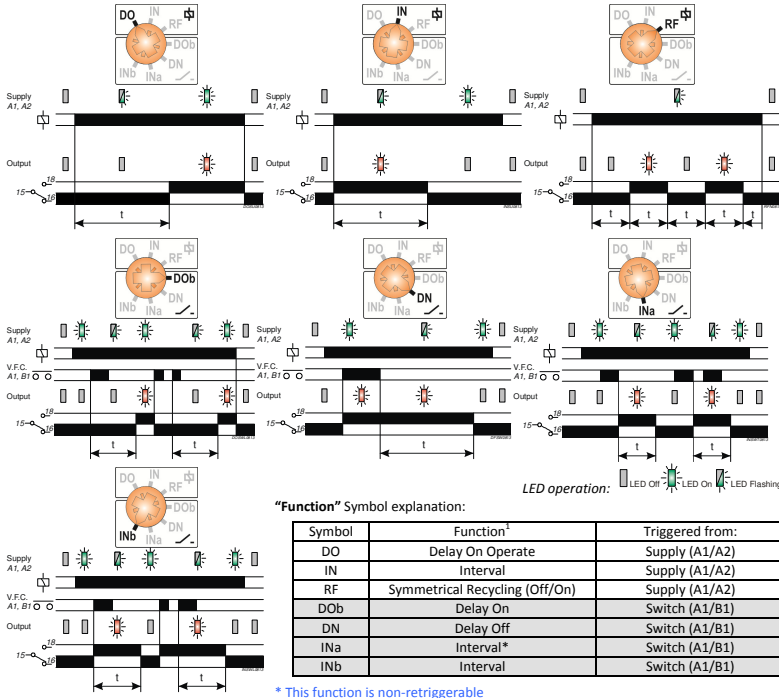


- *NEW* 17.5mm DIN rail housing
- 7 Selectable functions (3 Supply Initiated, 4 Switch Initiated)
- 7 Selectable time ranges (0.1 seconds – 100 hours)
- Fine adjustment of selected time range
- LED warning indication if function is changed whilst powered
- Switch initiated functions ideal for use in 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. CE, C-tick and RoHS Compliant. EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz) Emissions: EN 61000-6-4

INSTALLATION AND SETTING

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



Installation work must be carried out by qualified personnel.

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.

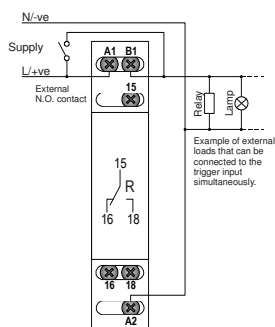
- Apply power and the green LED ① will illuminate or start flashing depending on Function selected. If a Switch initiated function is selected, the LED will begin flashing upon closing of the external input.
- The red relay LED ② will illuminate to indicate the relay is in the energised state.

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.

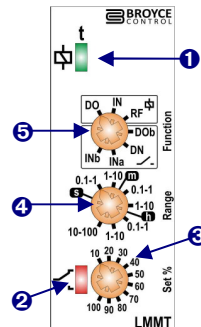
² In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change. The dip / interruption duration and levels are defined in the product standard.

CONNECTION DIAGRAM



SETTING DETAILS

- Power supply status / Timing (Green) LED
- Relay output status (Red) LED
- "Set %" adjustment
- Time delay "Range" selector
- Timing "Function" selector



DIMENSIONS

