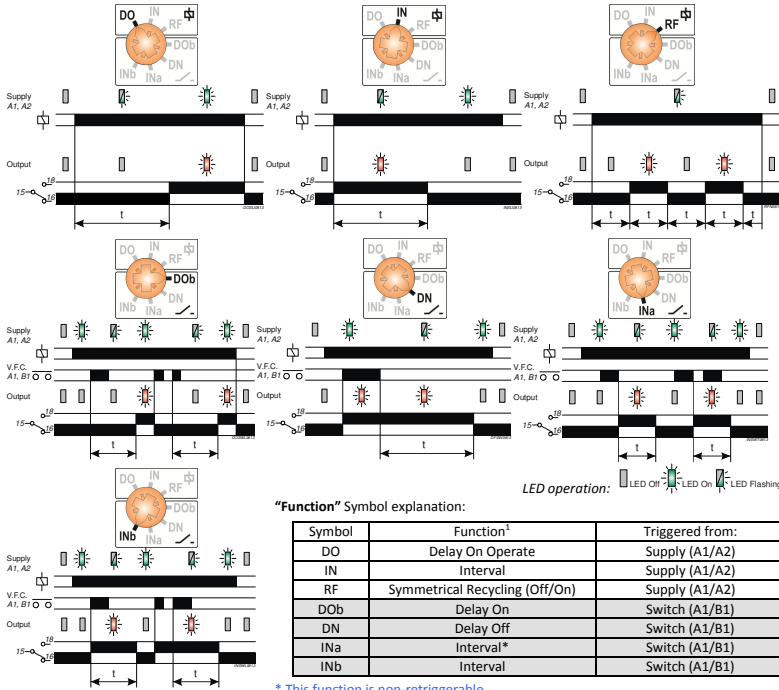


- ❑ *NEW* 17.5mm DIN rail housing
- ❑ 7 Selectable functions (3 Supply Initiated, 4 Switch Initiated)
- ❑ 7 Selectable time ranges (0.1 seconds – 100 hours)
- ❑ Fine adjustment of selected time range
- ❑ LED warning indication if function is changed whilst powered
- ❑ Switch initiated functions ideal for use in Watchdog circuits
- ❑ Multi-voltage input (12 – 230V AC/DC)
- ❑ 1 x DPDT 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:	AC: +15/-10% DC: +/-15%												
Overvoltage category:	III (IEC 60664)												
Rated impulse withstand voltage:	4kV (1.2/50µs) IEC 60664												
Power consumption (max.):	<table border="1"> <tr> <td>12V</td> <td>24V</td> <td>110V</td> <td>230V</td> </tr> <tr> <td>AC: 0.6VA</td> <td>0.8VA</td> <td>2.6VA</td> <td>6.8VA</td> </tr> <tr> <td>DC: 0.52W</td> <td>0.48W</td> <td>0.94W</td> <td>1.9W</td> </tr> </table>	12V	24V	110V	230V	AC: 0.6VA	0.8VA	2.6VA	6.8VA	DC: 0.52W	0.48W	0.94W	1.9W
12V	24V	110V	230V										
AC: 0.6VA	0.8VA	2.6VA	6.8VA										
DC: 0.52W	0.48W	0.94W	1.9W										
Timing functions (7):	Delay On (DO), Interval (IN), Symmetrical Recycling Off/On (RF)												
Supply initiated:	Delay On (DOb), Delay Off (DN), Interval (Trailing) (INa), Interval (Leading) (INb)												
Switch initiated:	Delay On (DOb), Delay Off (DN), Interval (Trailing) (INa), Interval (Leading) (INb)												
Timing ranges (7):	<table border="1"> <tr> <th>Seconds:</th> <th>Minutes:</th> <th>Hours:</th> </tr> <tr> <td>0.1 – 1</td> <td>0.1 – 1</td> <td>0.1 – 1</td> </tr> <tr> <td>1 – 10</td> <td>1 – 10</td> <td>1 – 10</td> </tr> <tr> <td></td> <td></td> <td>10 - 100</td> </tr> </table>	Seconds:	Minutes:	Hours:	0.1 – 1	0.1 – 1	0.1 – 1	1 – 10	1 – 10	1 – 10			10 - 100
Seconds:	Minutes:	Hours:											
0.1 – 1	0.1 – 1	0.1 – 1											
1 – 10	1 – 10	1 – 10											
		10 - 100											
Reset time ³ :	< 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 / 25, 26, 28):	DPDT relay												
Output rating:	<table border="1"> <tr> <td>AC1</td> <td>250V 8A (2000VA)</td> </tr> <tr> <td>AC15</td> <td>250V 5A (no), 3A (nc)</td> </tr> <tr> <td>DC1</td> <td>25V 8A (200W)</td> </tr> </table>	AC1	250V 8A (2000VA)	AC15	250V 5A (no), 3A (nc)	DC1	25V 8A (200W)						
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:	≈ 70g												
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 choosing seconds, minutes or hours 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.

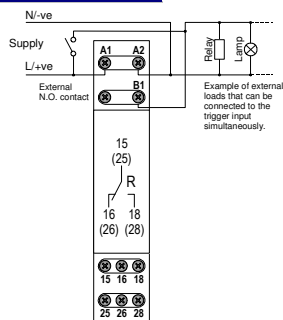
Note:

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.

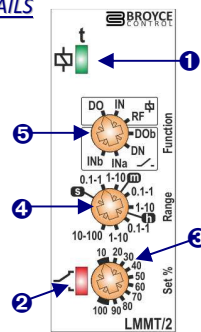
³ The dip / interruption (reset) duration and levels are defined in the product standard however, the standard allows for these to be different from the levels actually specified.

CONNECTION DIAGRAM

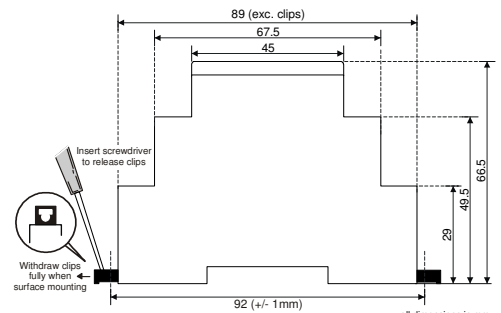


SETTING DETAILS

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



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