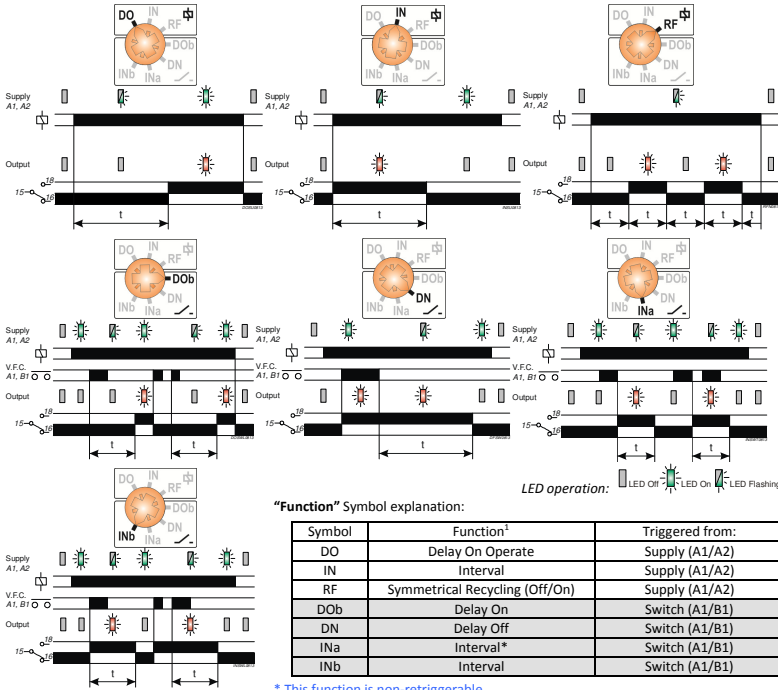


- **\*NEW\* 17.5mm DIN rail housing**
- **7 Selectable functions (3 Supply Initiated, 4 Switch Initiated)**
- **7 Selectable time ranges (0.1 seconds – 100 hours)**
- **Fine adjustment of selected time range**
- **LED warning indication if function is changed whilst powered**
- **Switch initiated functions 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.):	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):	Seconds:	Minutes:	Hours:	
	0.1 – 1	0.1 – 1	0.1 – 1	
	1 – 10	1 – 10	1 – 10	
			10 - 100	
Reset time <sup>3</sup> :	< 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 <sup>2</sup> :	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:	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 <sup>2</sup> 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 to the required position<sup>1</sup>.
- Set the "Range" to the required position choosing seconds, minutes or hours then set the "Set %" adjustment as required. The "Set %" is a % of the selected range, so 60% of the 1 – 10 hour range will give 6 hours.

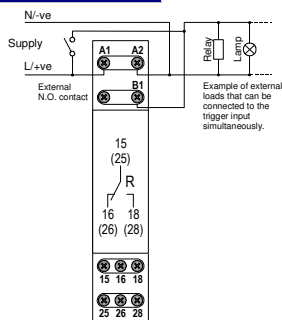
#### Applying power.

- Apply power and the green LED 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 will illuminate to indicate the relay is in the energised state.

#### Note:

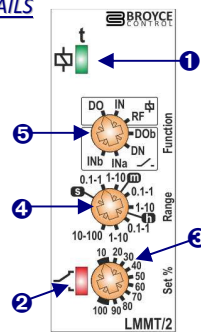
- <sup>1</sup> If the "Function" selector is changed whilst the power is applied, the relay will remain in its current state and the green LED will flash at a faster rate. Power must be removed and re-applied for the new Function to operate.
- <sup>2</sup> In accordance with IEC 61812, the green LED 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.
- <sup>3</sup> 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



### DIMENSIONS

