



# Datasheet

## Stock No. 102-6122

### Multi-function, Multi-voltage Timer

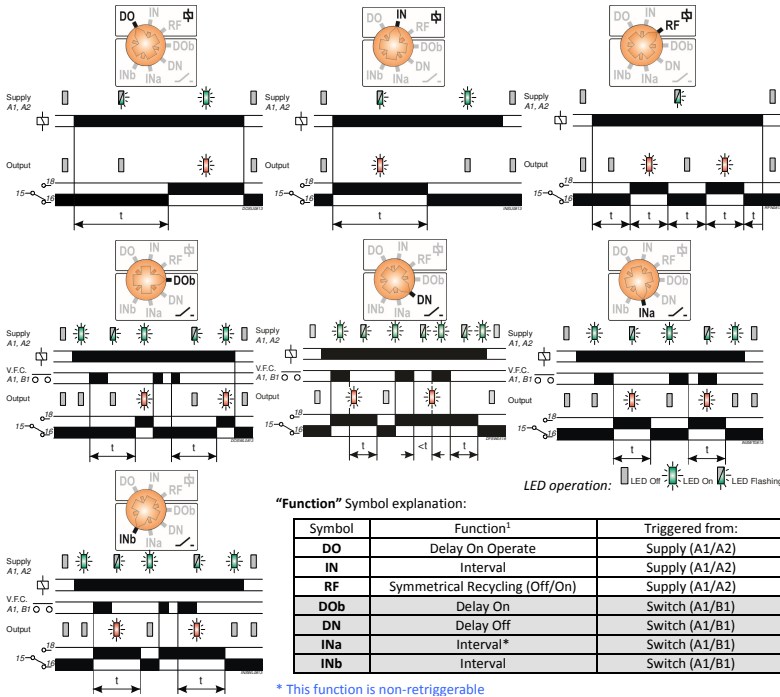


ENGLISH



- **\*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**

#### 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):	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 <sup>2</sup> :	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 <sup>2</sup> solid or stranded
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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 (depending on whether seconds, minutes or hours are required), 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.

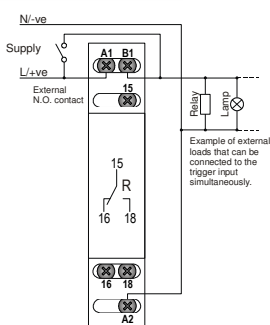
- Apply power and the green LED will illuminate or start flashing depending on Function selected. If a Switch initiated function is selected, the LED will begin flashing upon closing of the external input.
- The red relay LED will illuminate to indicate the relay is in the energised state.

##### 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.

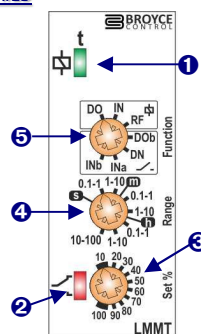
<sup>2</sup> In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change. The dip / interruption duration and levels are defined in the product standard.

#### 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

