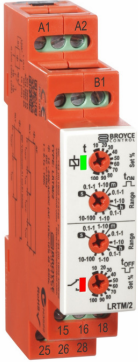


Terminal Protection to IP20



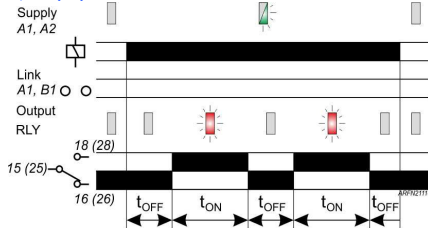
Dims: to DIN 43880
W. 17.5mm

- ❑ ***NEW* 17.5mm DIN rail housing**
- ❑ **Microprocessor based**
- ❑ **Dual Function - Asymmetrical recycling "Off/On" **AF** or Delayed Pulse **DP****
- ❑ **Separate adjustments for "on" and "off" ranges**
- ❑ **7 Selectable time ranges (0.1 seconds – 100 hours)**
- ❑ **Fine adjustment of selected time range**
- ❑ **Multi-voltage input (12 – 230V AC/DC)**
- ❑ **DPDT relay output 8A**
- ❑ **Green LED indication for supply / timing status**
- ❑ **Red LED indication for relay status**
- ❑ **Conforms to IEC 61812**



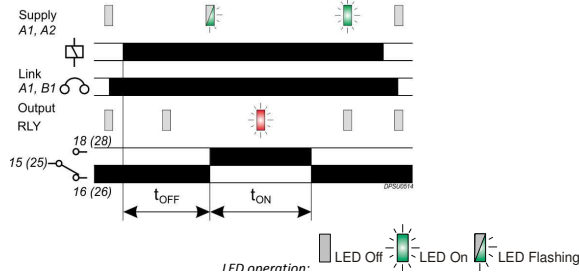
FUNCTION DIAGRAMS

Asymmetrical Recycling Off / On (AF)



Delayed Pulse (DP)

(terminals A1 and B1 linked)



INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required.
- If the Delayed Pulse function is required, place a link between terminals A1 and B1.



Installation work must be carried out by qualified personnel.

Setting the unit.

- Set the "toff" ④ and "ton" ⑥ "Range" selectors to the required position (depending on whether seconds, minutes or hours are required).
- Set the "Set %" adjustment for the "toff" ③ and "ton" ⑤ 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 start flashing to indicate timing is in progress.
- The red relay LED ② will illuminate to indicate the relay is the energised state when the "ton" delay is running.
- When the "toff" delay is running and relay is de-energised, the red LED will remain extinguished.
- If the Delayed Pulse function is selected, the green LED will stop flashing and remain illuminated when the relay de-energises after the "ton" period.

Note:

¹ 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.

² 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.

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 function:	Asymmetrical Recycling "Off / On" or Delayed Pulse (A1 > B1 linked)		
Timing ranges (7):	Seconds:	Minutes:	Hours:
(applies to "ton" and "toff")	0.1 – 1	0.1 – 1	0.1 – 1
	1 – 10	1 – 10	1 – 10
			10 - 100

Reset time ² :	<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
Power on indication / Timing ¹ :	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 3A
	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:	≈ 80g
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

Approvals:

Conforms to IEC 61812.



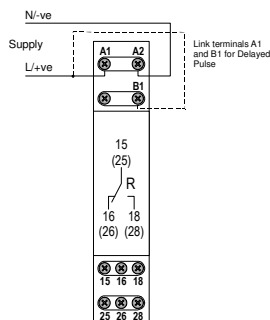
IND. CONT. EQ.
E111187

CE, C-tick and RoHS Compliant.

EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz)

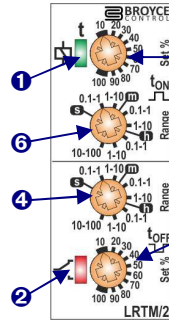
Emissions: EN 61000-6-4

CONNECTION DIAGRAM



SETTING DETAILS

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



DIMENSIONS

