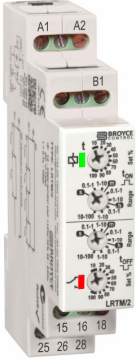


Terminal Protection to IP20



Dims: to DIN 43880
W. 17.5mm

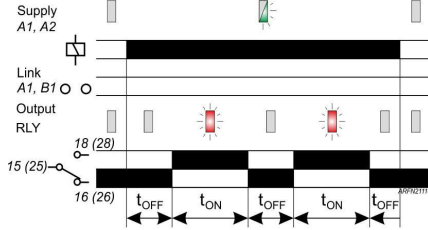
- ❑ ***NEW* 17.5mm DIN rail housing**
- ❑ **Microprocessor based**
- ❑ **Dual Function - Asymmetrical recycling "Off/On" AF or Delayed Pulse DP**
- ❑ **Separate adjustments for "on" and "off" ranges**
- ❑ **7 Selectable time ranges (0.1 seconds – 100 hours)**
- ❑ **Fine adjustment of selected time range**
- ❑ **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**



ISO 9001:2015
Cert. No. 14125771

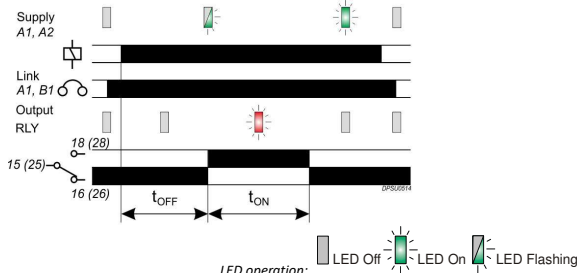
FUNCTION DIAGRAMS

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 "t_{OFF}" ④ and "t_{ON}" ⑥ "Range" selectors to the required position (depending on whether seconds, minutes or hours are required).
- Set the "Set %" adjustment for the "t_{OFF}" ③ and "t_{ON}" 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 "t_{ON}" delay is running.
- When the "t_{OFF}" 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 "t_{ON}" 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 "t _{ON} " and "t _{OFF} ")	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:	Grey 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	≤ 2 x 2.5mm ² solid or stranded

Approvals:

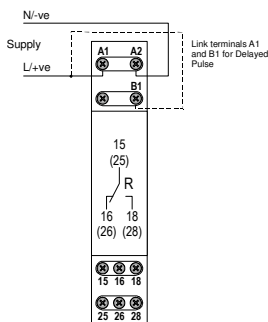
Conforms to IEC 61812.



IND. CONT. EQ.
E111187

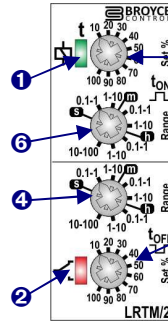
CE, UKCA, C-tick and RoHS Compliant.
EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz)
Emissions: EN 61000-6-4

CONNECTION DIAGRAM



SETTING DETAILS

1. Power supply status / Timing (Green) LED
2. Relay output status (Red) LED
3. "t_{OFF}" delay "Set %" adjustment
4. "t_{OFF}" delay "Range" selector
5. "t_{ON}" delay "Set %" adjustment
6. "t_{ON}" delay "Range" selector



DIMENSIONS

