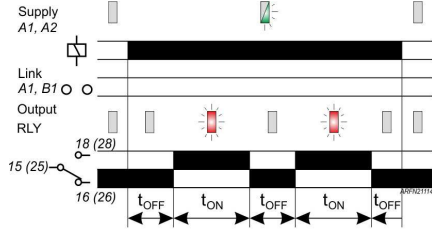




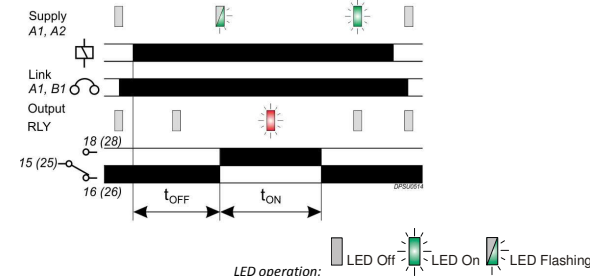
- ❑ *NEW* 17.5mm DIN rail housing
- ❑ Microprocessor based
- ❑ Dual Function - Asymmetrical recycling "Off/On" AF or Delayed Pulse DP
- ❑ Separate adjustments for "on" and "off" ranges
- ❑ 7 Selectable time ranges (0.1 seconds – 100 hours)
- ❑ Fine adjustment of selected time range
- ❑ Multi-voltage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



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): (applies to "tON" and "tOFF")	Seconds:	Minutes:	Hours:	
	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	≤ 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.
- 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" and "tON" "Range" selectors to the required position (depending on whether seconds, minutes or hours are required).
- Set the "Set %" adjustment for the "tOFF" and "tON" as required. The "Set %" is a % of the selected range, so 60% of the 1 – 10 hour range will give 6 hours.

Applying power.

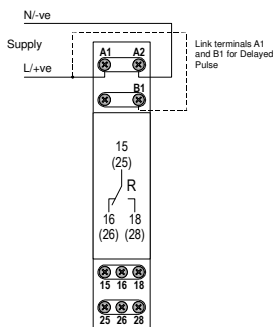
- Apply power and the green LED will start flashing to indicate timing is in progress.
- The red relay LED will illuminate to indicate the relay is the energised state when the "tON" delay is running.
- When the "tOFF" delay is running and relay is de-energised, the red LED will remain extinguished.
- 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.

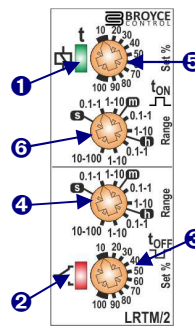
² The dip / interruption (reset) duration and levels are defined in the product standard however, the standard allows for these to be different from the levels actually specified.

CONNECTION DIAGRAM

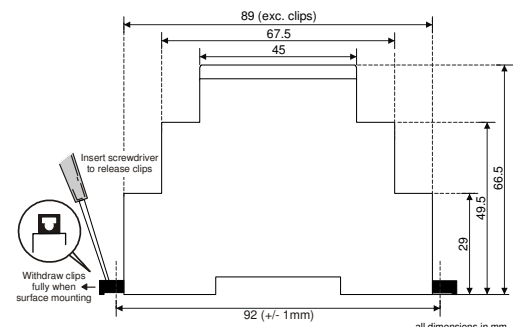


SETTING DETAILS

1. Power supply status / Timing (Green) LED
2. Relay output status (Red) LED
3. "tOFF" delay "Set %" adjustment
4. "tOFF" delay "Range" selector
5. "tON" delay "Set %" adjustment
6. "tON" delay "Range" selector



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