

Terminal
Protection
to IP20

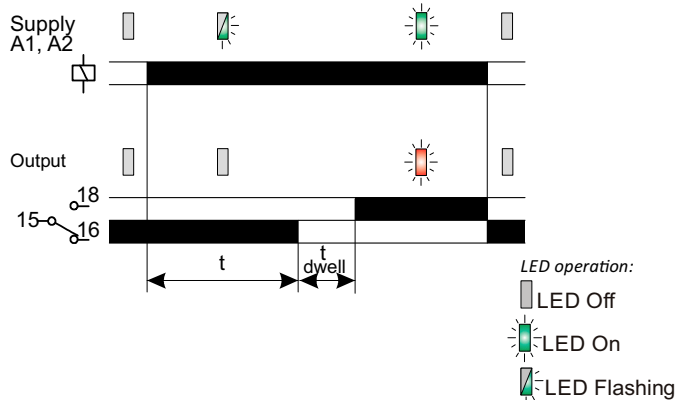


Dims: to DIN
43880
W. 17.5mm

- » 17.5mm DIN rail housing
- » Star/Delta timing function
- » 7 Selectable Dwell time settings (40 – 160ms)
- » 7 Selectable time ranges (0.1 seconds – 100 hours)
- » Fine adjustment of selected time range
- » 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 DIAGRAM



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 "Dwell (ms)" selector ⑤ to the required position.
- Set the "Range" ④ to the required position (depending on whether seconds, minutes or hours are required), then set the "Set %" adjustment ③ 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. Contacts 15 and 16 will remain closed during this period.
- At the end of the delay period "t", contacts 15 and 16 will open for the period set by the Dwell time.
- After the Dwell time, contacts 15 and 18 will close and the red relay LED ② will illuminate to indicate the relay is in the energised state.
- The relay will remain in the energised state until power is removed. Re-applying power will repeat the whole process again.

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. The dip / interruption duration and levels are defined in the product standard.

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.

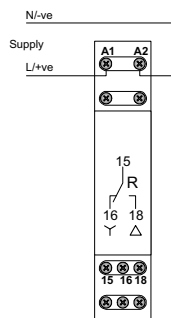
TECHNICAL SPECIFICATION

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)
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:	Star/Delta Start
Selectable Dwell (t _{dwell}) time settings (7):	40, 60, 80, 100, 120, 140, 160ms
Timing ranges (7):	Seconds: 0.1 – 1 1 – 10 10 – 100
Minutes:	0.1 – 1 1 – 10 10 – 100
Hours:	0.1 – 1 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
Drift with voltage:	± 0.2% / V
Power on indication / Timing ¹ :	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 6A (1500VA)
	DC1 30V 6A (180W)
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 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.



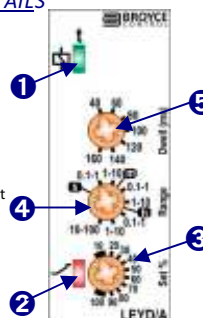
CE, C-tick and RoHS Compliant.
EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz)
Emissions: EN 61000-6-4

CONNECTION DIAGRAM



SETTING DETAILS

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



DIMENSIONS

