

Terminal Protection to IP20



- ❑ Supply Initiated Interval timing function
- ❑ 7 Selectable time ranges (0.1 seconds – 100 hours)
- ❑ Fine adjustment of selected time range
- ❑ Multi-voltage input (12 – 230V AC/DC)
- ❑ 1 x DPDT relay output 8A
- ❑ Green LED indication for supply / timing status
- ❑ Red LED indication for relay status
- ❑ Conforms to IEC 61812

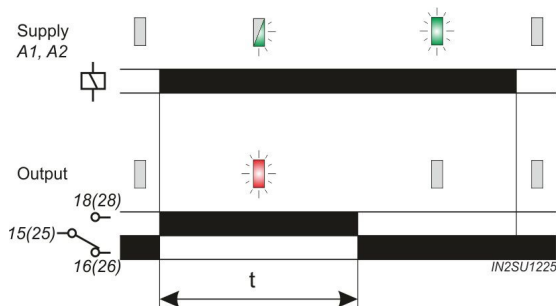
Dims: to DIN  
43880  
W. 17.5mm

Wiring Information and Product Demonstration Videos can also be found on our YouTube channel

<https://www.youtube.com/user/BroyceControlLtd>



### FUNCTION DIAGRAM



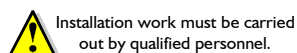
LED operation:



### 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:	Delay On Operate (Supply Initiated)
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 <sup>2</sup> :	<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 <sup>1</sup> :	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 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:	Grey flame retardant UL94
Weight:	≈ 70g
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
Approvals:	Conforms to IEC 61812.

### INSTALLATION AND SETTING



- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required.

#### Setting the unit.

- Set the "Range" ④ to the required position (depending on whether seconds, minutes or hours are required).
- Set the "Set %" adjustment ③ as required. The "Set %" is a % of the selected range; so for example, a 30% setting on the 1 – 10 hour range will give 3 hours.

#### Applying power.

- Apply power across terminals "A1" and "A2" and the green LED ① will start flashing indicating timing in progress.
- The relay will energise (contacts 15 / 18 and 25 / 28 closed, 15 / 16 and 25 / 26 open) and red LED ② illuminate.
- After the delay period "t" has elapsed, the relay will de-energise (contacts 15 / 18 and 25 / 28 open, 16 / 18 and 25 / 26 closed) and the red LED will extinguish.
- The green LED will remain permanently lit.
- The whole timing process is repeated by removing and re-applying power.

#### Note:

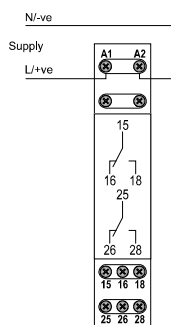
<sup>1</sup> In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change.

<sup>2</sup> 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.



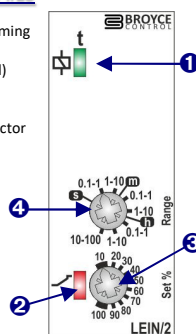
CE, UKCA, C-tick and RoHS Compliant.  
EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz)  
Emissions: EN 61000-6-4

### CONNECTION DIAGRAM



### SETTING DETAILS

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



### DIMENSIONS

