

Terminal Protection to IP20

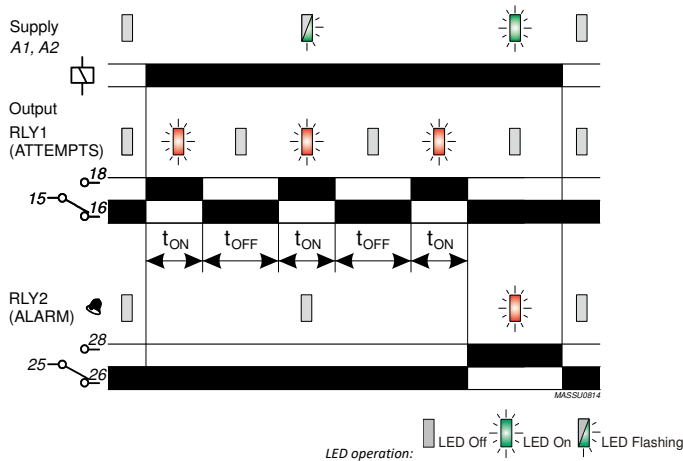


Dims: to DIN 43880
W. 17.5mm

- ***NEW* 17.5mm DIN rail housing**
- **Two relay outputs (RLY1 - "Attempts", RLY2 - "Alarm")**
- **7 Selectable "No. of Attempts" (2 – 8)**
- **Separate adjustments for RLY1 "On" and "Off" times (1 – 60 seconds)**
- **Multi-voltage input (12 – 48V AC/DC)**
- **2 x SPDT relay output 8A**
- **Green LED indication for supply / timing status**
- **Red LED indication for relay statuses**
- **Conforms to IEC 61812**



FUNCTION DIAGRAMS



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 "Start Attempts" ④ selector to the required position depending on how many attempts the equipment is allowed before the alarm operates.
- Set the "On Time (s)" ⑤ and "Off Time (s)" ⑥ adjustments as required. "On Time" is used to set the duration the relay is energised for and "Off Time" how long it remains de-energised.

Applying power.

- Apply power and the green LED ① will start flashing to indicate timing is in progress.
- Contacts 15 and 18 will close as soon as power is applied (RLY1) and the red relay LED ③ will illuminate. This will remain for the duration set by the "On Time". At the end of this Contacts 15 and 18 will open and 15 and 16 close with the red LED ③ extinguishing for the duration set by the "Off Time".
- If RLY1 is allowed to energise for the final attempt, at the end of the last "t_{ON}" period it will then de-energise and RLY2 will then energise (Contacts 25 and 28 closing). Red LED ② will illuminate and green LED ① will remain permanently on.
- The unit will then remain in this state until power is removed. Re-applying power will repeat the whole timing sequence 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.

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.

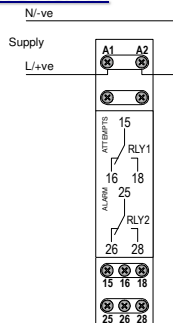
TECHNICAL SPECIFICATION

Supply voltage U (A1, A2):	12 – 48V AC/DC
Frequency range:	48 – 63Hz (AC supplies)
Supply variation:	+15/-30%
Power consumption (max.):	12V 24V
	AC: 0.6VA 0.8VA
	DC: 0.52W 0.48W
Attempts to Start (7) settings:	2, 3, 4, 5, 6, 7 or 8
Timing function (RLY1):	Attempts to Start Output
Timing delay adjustment:	1 – 60 seconds "t _{ON} " and "t _{OFF} "
Timing function (RLY2):	Alarm Output
Time delay:	Instantaneous after RLY1 has de-energised following the last attempt
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 (RLY1)	Red LED
Relay status (RLY2 - Alarm)	Red LED
Ambient temperature:	-20 to +60°C
Relative humidity:	+95%
Output (15, 16, 18 / 25, 26, 28):	SPDT relay (x2)
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:	≈ 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.



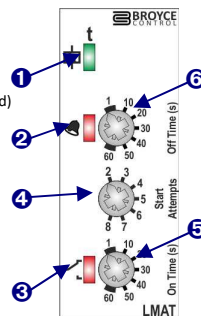
CE, UKCA, C-tick and RoHS Compliant.
EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz)
Emissions: EN 61000-6-4

CONNECTION DIAGRAM



SETTING DETAILS

1. Power supply status / Timing (Green) LED
2. RLY2 "Alarm" output status (Red) LED
3. RLY1 output status (Red) LED
4. "Start Attempts" selector
5. "On Time [t_{ON}]" adjustment
6. "Off Time [t_{OFF}]" adjustment



DIMENSIONS

