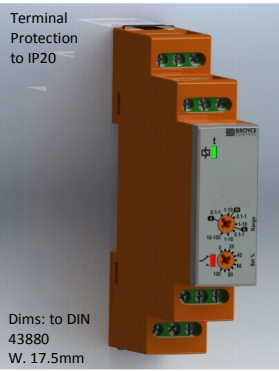


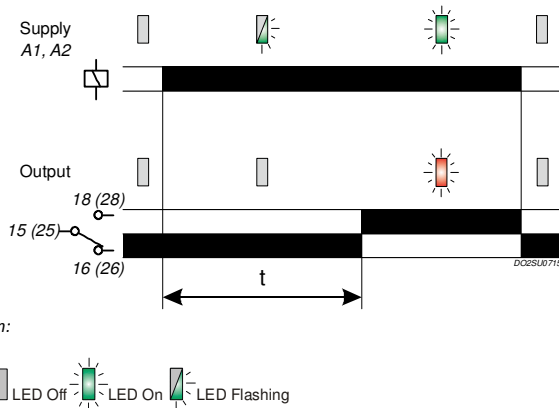
TMR02

ON DELAY TIMER RELAY 0.1S - 100hours AC/DC INPUT



- ❑ ***NEW*** 17.5mm DIN rail housing
- ❑ Supply Initiated **Delay On Operate** 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

FUNCTION DIAGRAM



TECHNICAL SPECIFICATION

Supply voltage U (A1, A2):	12 – 230V AC/DC			
Frequency range:	48 – 63Hz (AC supplies)			
Supply variation:	AC: +15/- 10% DC: +/-15%			
Overtolerance 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 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, 18/25, 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:	Orange 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 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.



Installation work must be carried out by qualified personnel.

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.

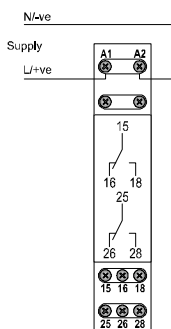
Applying power.

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

Note:

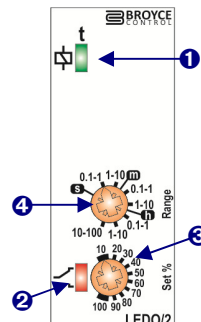
¹ In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change.
² The dip / interruption (reset) duration and levels are defined in the product standard however, the standard 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. "Set %" adjustment
4. Time delay "Range" selector



DIMENSIONS

