Type: LEDK

Delay On Operate with Instantaneous Contact Timer

Terminal Protection to IP20

Dims: to DIN 43880
W. 17.5mm

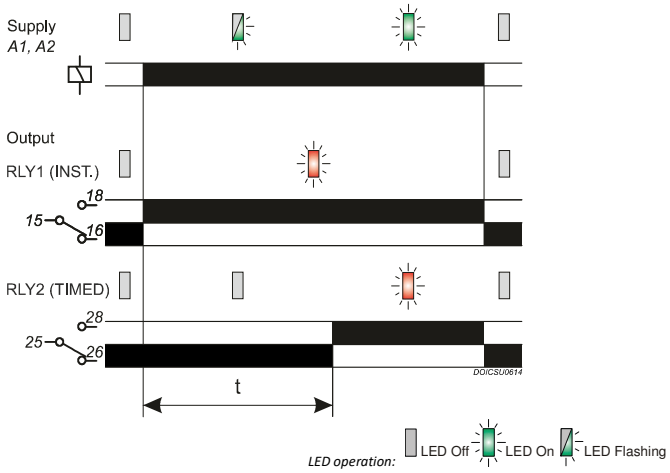
- ***NEW* 17.5mm DIN rail housing**
- **Instantaneous Contact (Relay 1)**
- **Delay On Operate timing function (Relay 2)**
- **7 Selectable time ranges (0.1 seconds – 100 hours)**
- **Fine adjustment of selected time range**
- **Multi-voltage input (12 – 230V AC/DC)**
- **2 x SPDT relay output 8A**
- **Green LED indication for supply / timing status**
- **Red LED indication for relay statuses**
- **Conforms to IEC 61812**

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

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

ISO 9001:2015
Cert. No. 14125771

FUNCTION DIAGRAMS



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 (RLY1):	Instantaneous Contact			
Time delay:	<100mS (to relay energising)			
Timing function (RLY2):	Delay On Operate			
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 (Instantaneous - RLY1)	Red LED			
Relay status (Delay On Op. - RLY2)	Red LED			
Ambient temp:	-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 2.5mm² solid or stranded			
Approvals:	Conforms to IEC 61812.			

c UL us LISTED IND. CONT. EQ. E111187

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

INSTALLATION AND SETTING

Installation work must be carried out by qualified personnel.

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

Setting the unit.

- Set the "Range" ❹ to the required position (depending on whether seconds, minutes or hours are required), then set the "Set %" adjustment ❺ as required. The "Set %" is a % of the selected range, so 60% of the 1 – 10 hour range will give 6 hours.

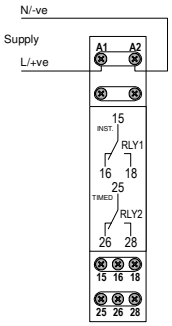
Applying power.

- Apply power and the green LED ❶ will start flashing to indicate timing is in progress. Contacts 15 and 18 will close as soon as power is applied (Instantaneous Relay - RLY1) and the red relay LED ❸ will illuminate. Contacts 25 and 26 (Timed Relay - RLY2) will remain closed during this period
- At the end of the delay period "t" contacts 25 and 26 will open 25 and 28 will close. The red relay LED ❷ will illuminate.
- Both relays will remain in the energised state until power is removed. Re-applying power will repeat the whole process again.

Note:

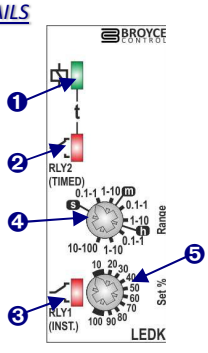
[1] In accordance with IEC 61812, the green LED is permitted to extinguish during a voltage dip or momentary interruption of the power supply providing the state of the output relay does not change.
[2] The dip / interruption (reset) duration and levels are defined in the product standard however, the standard allows for these to be different from the levels actually specified.

CONNECTION DIAGRAM

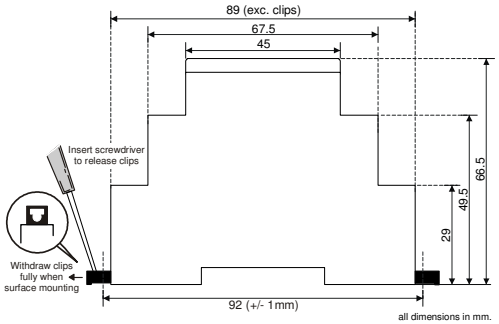


SETTING DETAILS

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



DIMENSIONS



HS Code: 85364900
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