Z-TRAUQ INC.

LEDK

Terminal Protection to IP20

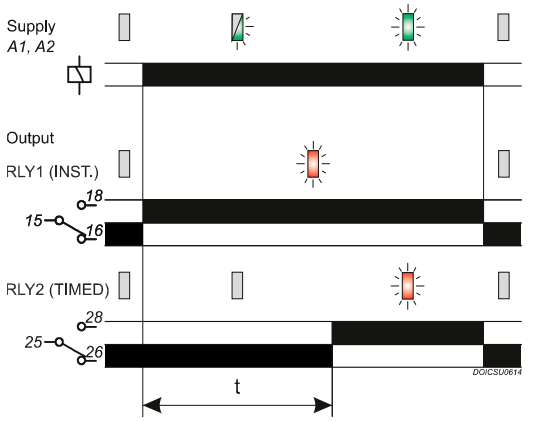
Dims: to DIN 43880
W. 17.5mm

- ☑ *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
- ☑ Multi-voltage input 12 – 230V AC/DC
- ☑ Fine adjustment of selected time range
- ☑ Green LED indication for supply / timing status
- ☑ Red LED indication for relay status

Multi time range
Multi-voltage Timer

ISO 9001:2015
Cert. No. 14125771

FUNCTION DIAGRAM



LED operation: LED Off / LED On / LED Flashing

TECHNICAL SPECIFICATIONS

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 :	<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 symmetrical 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			

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" 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 6hours.

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 and26 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:

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.

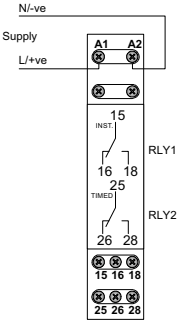
The dip / interruption (reset) duration and levels are defined in the product standard however, the standard allows for these to be different from the levels actually specified.

Approvals: c UL us LISTED IND. CONT. EQ. E111187

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

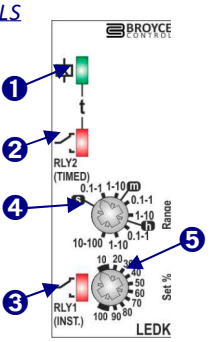
The Information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such information shall be entirely at the user's own risk.

CONNECTION DIAGRAM

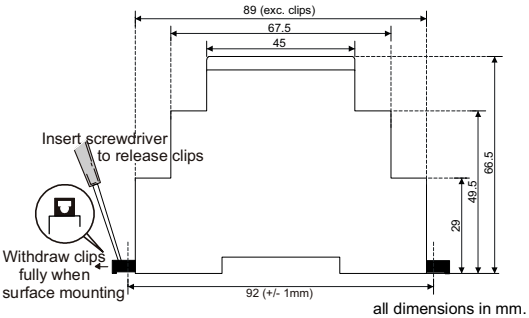


SETTING DETAILS

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



all dimensions in mm.