Z-TRAUQ INC.

Type: LART/2

Asymmetrical Recycling Multi-voltage Timer

Terminal Protection to IP20

Dims: to DIN 43880
W. 17.5mm

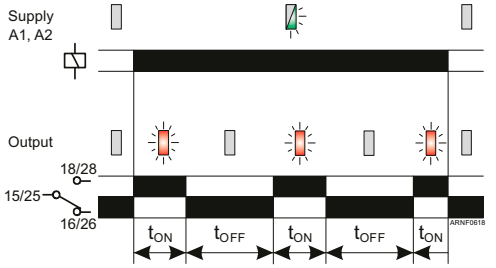
***NEW* 17.5mm DIN rail housing**
Microprocessor based

Recycling "On / Off" function AN or "Off / On" AF with A1 & B1 linked
Separate adjustments for "on" and "off" ranges
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

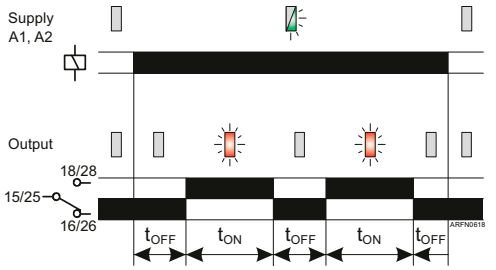
ISO 9001:2015
Cert. No. 14125771

FUNCTION DIAGRAMS

On / Off **(AN)**



Off / On **(AF)**
A1 and B1 linked



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) IEC60664			
Power consumption (max.):	12V	24V	110V	230V
AC:	0.6	0.8	1.6	6.8VA
DC:	0.52W	0.48W	0.94W	1.9W
Timing functions - 2:				
	(AN) Asymmetrical Recycling "On / Off"			
	(AF) Asymmetrical Recycling "Off / On"			
Timing ranges - 7:	Seconds:	Minutes:	Hours:	
applies to both cycles independently		0.1	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	Green LED			
Relay status	Red LED			
Ambient temp:	-20 to +60°C			
Relative humidity:	+95%			
Output:	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 vo	4kV (1.2/50µS) IEC 60664			
Housing:	Orange flame retardant UL94 V0			
Weight:	≈ 70g			
Mounting option:	Onto 35mm symmetric DIN rail or direct surface mounting via 2 x M3.5 / 4BA screws using the black clips on the rear of the unit.			
Terminal conductor size	≤ 2 x 2.5mm² solid / stranded			
Approvals	Conforms to IEC 61812.			

UL LISTED IND. CONT. EQ. E111187

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

⚠ Installation work must be carried out by qualified personnel.

BEFORE INSTALLATION, ISOLATE THE SUPPLY.
Connect the unit as required.
If Asymmetrical Recycling "Off / On" is required, place a link between terminals A1 and B1.

Setting the unit.

Set the **'t'** off & on *range selectors* to suit whether seconds, minutes or hours are required.
Set the % potentiometers to reflect the delays for the OFF & ON periods. For a 6 hour OFF period and 2 minutes ON period, set potentiometer ❹ to 10 hours and the % potentiometer ❸ to 60; then potentiometer ❺ to 10 minutes and ❻ to 20%.

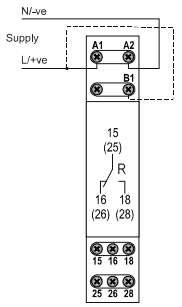
Applying power.

Apply power and the green LED will start flashing to indicate timing is in progress. The red relay LED will illuminate to indicate the relay is the energized state when the "t on" delay is running. When the "t off" delay is running and relay is de-energised, the red LED will remain extinguished.

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 duration and levels are defined in the product standard.

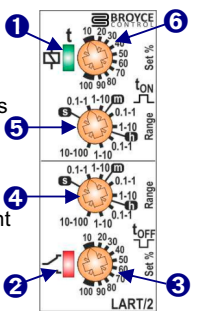
CONNECTION DIAGRAM



place a link between terminals A1 & B1 for OFF/ON recycling

SETTING DETAILS

❶ Green LED timing / power status
❷ Red LED Relay output status
❸ OFF Delay "Set %" adjustment
❹ OFF Delay "Range" selector
❺ ON Delay "Set %" adjustment
❻ ON Delay "Range" selector



DIMENSIONS

all dimensions in mm.