

Terminal Protection to IP20

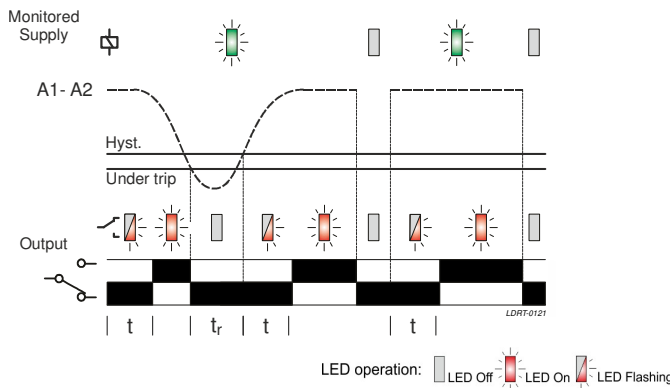


Dims: to DIN 43880
W. 17.5mm

- ❑ Detects voltage dips and momentary loss/interruption of supply
- ❑ "Delay on operate" functionality provides an adjustable delay period before the relay energises
- ❑ Fixed Under voltage trip level (80% of Un)
- ❑ Adjustable time delay (2 – 60s)
- ❑ Fixed reset time (100ms)
- ❑ SPDT relay output 8A
- ❑ Green LED indication for supply status
- ❑ Red LED indication for timing and relay status
- ❑ Compact 17.5mm DIN rail housing
- ❑ Ideal for water authorities where remote pumping stations and unmanned control systems are in use



FUNCTION DIAGRAM

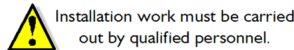


TECHNICAL SPECIFICATION

Supply/monitoring voltage	Un [^] (A1, A2): 115, 230V AC		^ Please state supply voltage when ordering
Frequency range:	48 – 63Hz		
Supply variation:	75 – 115% Un		
Overtoltage category:	III (IEC 60664)		
Rated impulse withstand voltage:	2.5kV (115V), 4kV (1.2/50µs) IEC 60664		
Power consumption (max.):	11VA @ 1.15 x Un		
Monitoring mode:	Under voltage		
Trip levels:	Under:	80% of Un (Fixed)	
Trip accuracy:	± 5%		
Hysteresis:	≈ 5% of fixed trip level (factory set)		
Time delay (t):	2 – 60s (± 5%)		
Setting accuracy:	± 5%		
Repeat accuracy:	± 0.5% at constant conditions		
Reset time (t _r):	≈ 100ms		
LED indication:	Green LED (Power supply) Red LED (Relay/timing status)		
Ambient temperature:	-20 to +60°C		
Relative humidity:	+95% max.		
Output (15, 16, 18):	SPDT 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:	Grey flame retardant UL94		
Weight:	61g		
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		
Terminal screw:	M3 (Designed for use with PZ1 "pozi-driver")		
Tightening torque:	0.6Nm Max.		
Approvals:	Conforms to IEC, CE, UKCA and RoHS Compliant. EMC: Immunity: EN 61000-6-2 Emissions: EN 61000-6-4		

INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required. The Connection Diagram below shows a typical installation, whereby the supply to a load is being monitored by the unit. If a fault should occur (i.e. fuse blowing), the relay will de-energise and assuming control of the external Contactor, de-energise the Contactor as well.



Applying power.

- Apply power and the green LED ① will illuminate. The relay will remain de-energised.
- Assuming the supply voltage is above the fixed trip level (plus hysteresis) the delay period (t) will commence and the red LED ② will flash during this period.
- After the set delay has elapsed, the relay will energise and red LED ② remain on.

Setting the unit

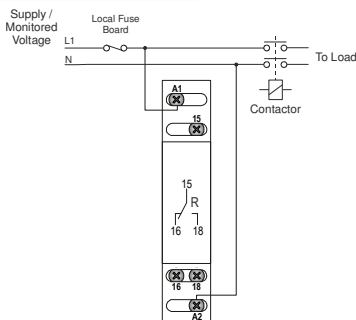
- Set the "Delay (t)" ③ adjustment as required.

Troubleshooting.

The table below shows the status of the unit during a particular condition.

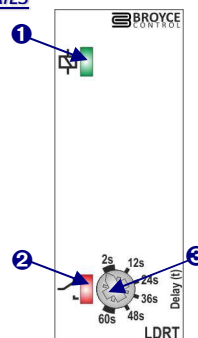
Supply status	Green LED ①	Red LED ②	Relay
No supply	Off	Off	De-energised
Under voltage condition	On	Off	De-energised
Following supply loss or voltage returning > 80% of Un	On	Flashing	De-energised for delay period (t)

CONNECTION DIAGRAM



SETTING DETAILS

1. Supply status (Green) LED
2. Relay output/timing status (Red) LED
3. "Delay (t)" adjustment



DIMENSIONS

