

Terminal Protection to IP20



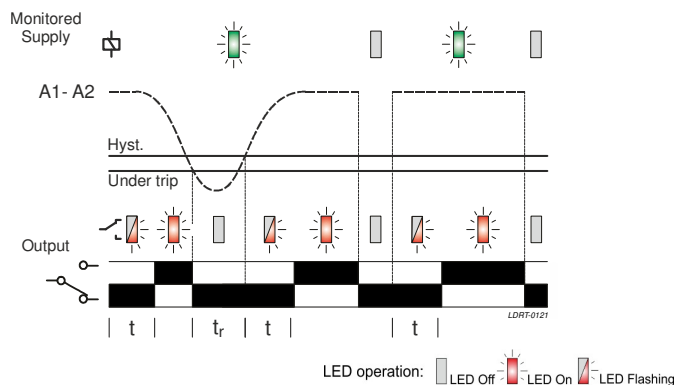
Dims: to DIN 43880
W. 17.5mm

- ❑ 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 U_n)
- ❑ 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



ISO 9001:2015
Cert. No. 14125771

FUNCTION DIAGRAM



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.



Installation work must be carried out by qualified personnel.

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 U_n	On	Flashing	De-energised for delay period (t)

TECHNICAL SPECIFICATION

Supply/monitoring voltage	115, 230V AC
U_n^* (A1, A2):	48 – 63Hz
Frequency range:	75 – 115% U_n
Supply variation:	III (IEC 60664)
Overvoltage category:	Rated impulse withstand voltage: 2.5kV (115V), 4kV (1.2/50μs) IEC 60664
Power consumption (max.):	11VA @ 1.15 x U_n

* Please state supply voltage when ordering

Monitoring mode:	Under voltage
Trip levels:	Under: 80% of U_n (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)
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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)

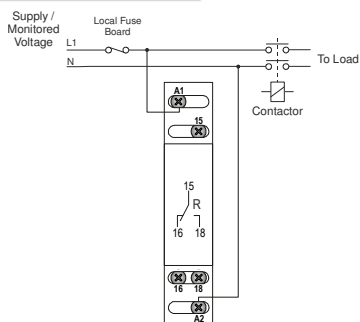
Electrical life:	≥ 150,000 ops at rated load
Dielectric voltage:	2kV AC (rms) IEC 60947-1
Rated impulse withstand voltage:	4kV (1.2/50μs) IEC 60664

Housing:	Orange 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.

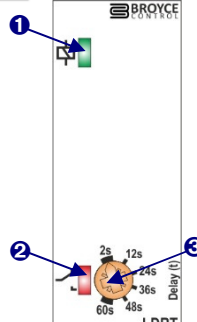
Approvals:	Conforms to IEC, CE, and RoHS Compliant. EMC: Immunity: EN 61000-6-2 Emissions: EN 61000-6-4
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CONNECTION DIAGRAM



SETTING DETAILS

- Supply status (Green) LED
- Relay output/timing status (Red) LED
- "Delay (t)" adjustment



DIMENSIONS

