

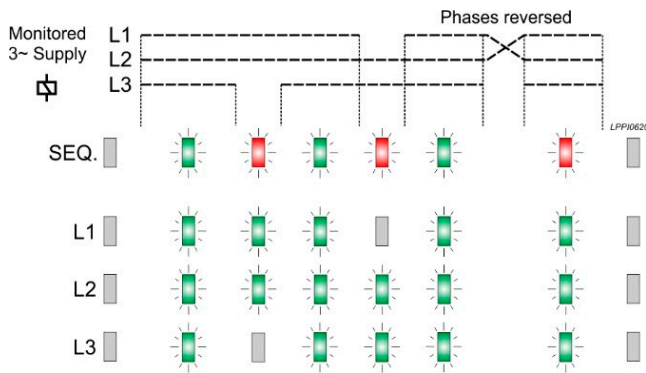
Terminal Protection to IP20



Dims: to DIN 43880
W. 17.5mm

Ideal for control panels, switchboards, distribution systems that require visual indication and status of a 3-phase power supply
Used to indicate that all phases are present and phase sequence is correct (or incorrect)
Designed for use on 3-phase, 3-wire supplies
Individual Green LED to indicate the presence (or absence) of each phase
Bi-colour Red/Green LED indication for phase sequence status
Compact, 17.5mm DIN Rail housing

FUNCTION DIAGRAM



TECHNICAL SPECIFICATION

Supply/monitoring voltage	320 – 490V AC
U (L1, L2, L3):	48 – 63Hz
Frequency range:	III (IEC 60664)
Overvoltage category:	4kV (1.2/μs) 5 IEC 60664
Rated impulse withstand voltage:	< 4VA
Power consumption (max.):	Phase reversal and phase loss
Monitoring mode:	Green LED x3
Phase present indication:	Bi-colour LED x1
Phase sequence status indication:	Green = Sequence correct
	Red = Sequence incorrect
Ambient temp:	-20 to +60°C
Relative humidity:	+95% max.
Housing:	Orange flame retardant UL94
Weight:	48g
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
Approvals:	Conforms to IEC. CE and RoHS Compliant. EMC: Immunity: EN 61000-6-2 Emissions: EN 61000-6-4

Numbers/characters shown above in bold/within brackets refer to terminal printing on the housing.

INSTALLATION AND SETTING



Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required. The Connection Diagram below shows a typical installation, whereby the supply is being monitored by the Phase Indicator. If a fault should occur (i.e. fuse blowing), the LED's on the unit will indicate accordingly.

Applying power.

- Assuming all phases present and phase sequence correct the "SEQ." LED will illuminate in green and "L1, L2 and L3" LED's also illuminate (in green).

Fault examples - Phase reversal

- If two phases become reversed or power is applied with two phases already reversed, the "SEQ." LED will illuminate in red to denote a fault.

Fault examples - Phase Loss

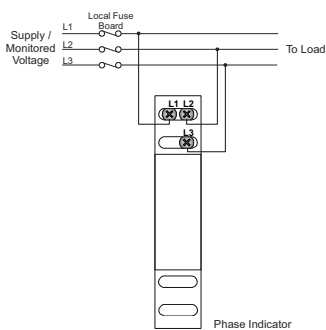
- If during operation a phase is lost, the corresponding green LED for that phase will extinguish. Provided the other two phases are still connected, the LED's for those phases will continue to illuminate.
- The "SEQ." LED will change colour from green to red to denote a fault. This applies regardless of which phase is lost.

Troubleshooting.

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

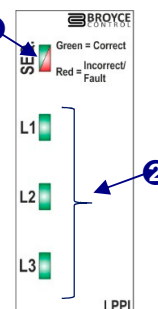
Supply fault	SEQ. LED	L1 LED	L2 LED	L3 LED
L1 Phase missing	Red	Off	On	On
L2 Phase missing	Red	On	Off	On
L3 Phase missing	Red	On	On	Off
Phases reversed	Red	On	On	On
Any 2 or more phases missing	Off	Off	Off	Off

CONNECTION DIAGRAM



LED INDICATION

- Phase Sequence status (Bi-colour Red/Green) LED
- Phase presence status (Green) LED's



DIMENSIONS

