Type: LPPI

Phase Sequence/Failure Indicator

Terminal Protection to IP20

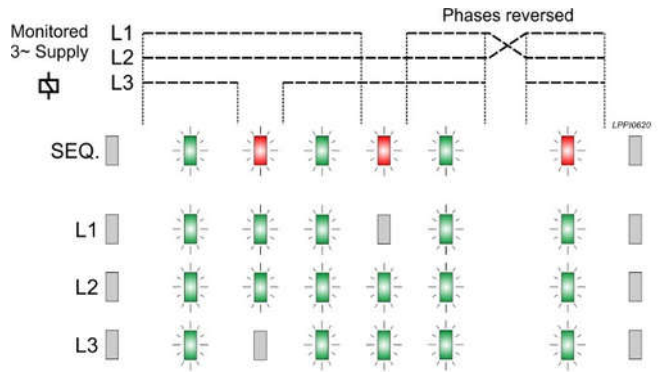


Dims: to DIN 43880
W. 17.5mm

- **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**

ISO 9001:2015
Cert. No. 14125771

FUNCTION DIAGRAM



TECHNICAL SPECIFICATION

Supply/monitoring voltage U **(L1, L2, L3):**	320 – 490V AC
Frequency range:	48 – 63Hz
Overvoltage category:	III (IEC 60664)
Rated impulse withstand voltage:	4kV (1.2/50µS) IEC 60664
Power consumption (max.):	< 4VA
Monitoring mode:	Phase reversal and phase loss
Phase present indication:	Green LED x3
Phase sequence status indication:	Bi-colour LED x1 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 ≤ 2.5mm² 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.**" ❶ LED will illuminate in green and "**L1, L2** and **L3**" ❷ 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

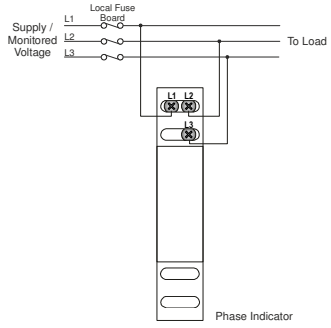
- If during operation a phase is lost, the corresponding green LED for that phase will extinguish. Provided the other two phases are still connected, the LED's for those phases will continue to illuminate.
- The "**SEQ**." LED will change colour from green to red to denote a fault. This applies regardless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

Troubleshooting.

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

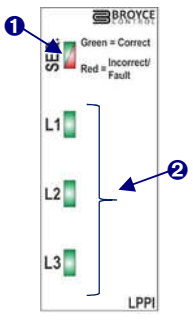
Supply fault	**SEQ.** LED	**L1** LED	**L2** LED	**L3** LED
L1 Phase missing	Red	Off	On	On
L2 Phase missing	Red	On	Off	On
L3 Phase missing	Red	On	On	Off
Phases reversed	Red	On	On	On
Any 2 or more phases missing	Off	Off	Off	Off

CONNECTION DIAGRAM

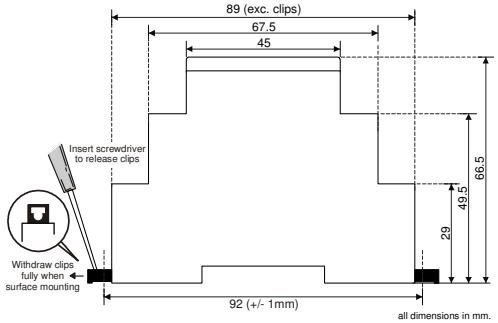


LED INDICATION

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



DIMENSIONS



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