



LLi – A00726

**Live Line Indicator
& Remote Display**

Operation Manual

Live Line Indicator and Remote Display Manual

Part number: A00726

Version 1.2

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1 OVERVIEW

The LLi module is a compact, panel mounted, low power, three phase monitoring device which provides indication of the presence of Voltage on any or all phases of a 3 phase electrical system.

Two (2) LEDs per phase are fitted on the remote indicator, providing redundancy of indication.

The three (3) line/load phases and earth are connected directly to the LLi module.

2 OPERATION

The LLi is a safety monitoring device which is continuously rated to be connected across the line or load terminals of an electrical system and will provide LED indication of the presence of voltage on each phase.

In operation the LLi will detect the presence of a voltage above 240volts on any or all of the phases. The LEDs on the remote indicator will illuminate for each of the phases that are energised.

Two LEDs for each phase are provided. If one of the LEDs fail to illuminate the remote indicator should be replaced. As the unit is fully encapsulated, the faulty unit cannot be repaired and should be discarded.

2 INSTALLATION

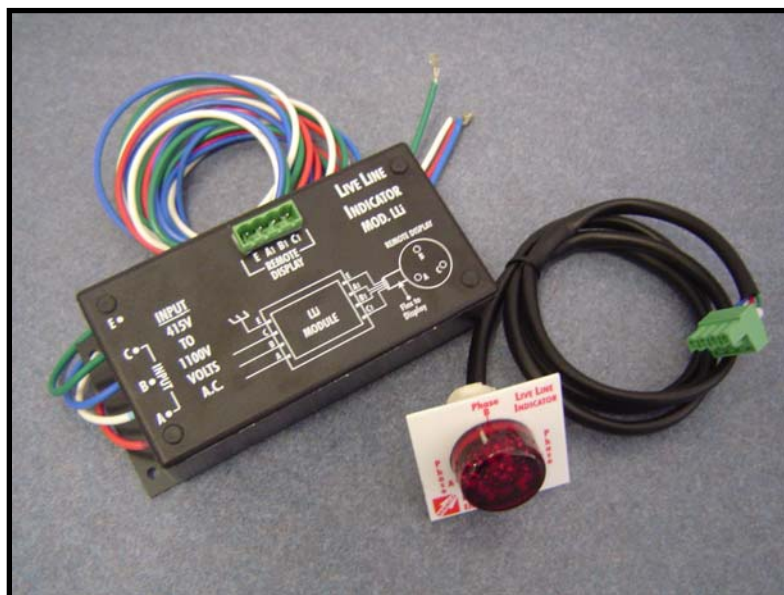
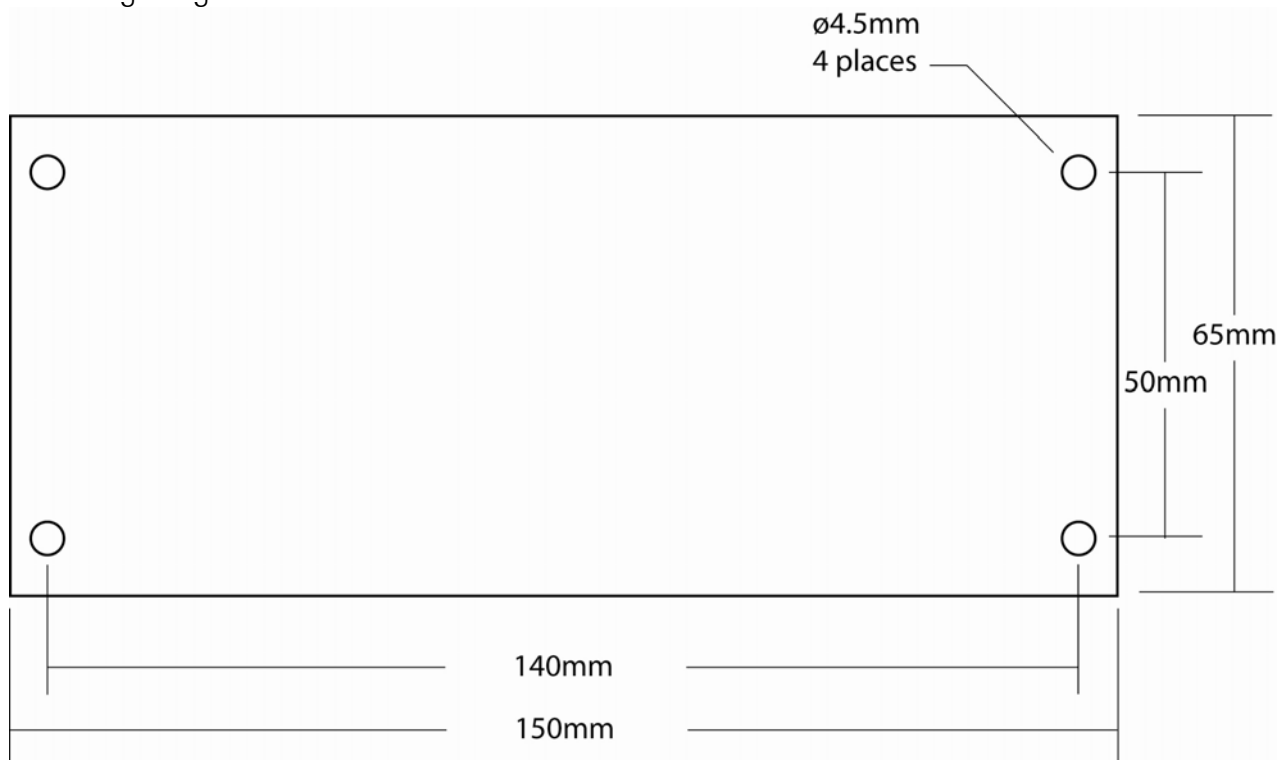
3 GENERAL RECOMMENDATIONS

Mount the module as close as is practical to the point of connection. Connect the 3 phase and Earth cables to the terminals of the supply to be monitored as shown on the connection diagram. The connecting leads should be as short as is practical and consistent with good wiring practice. Install the remote Indicator and ensure a gap of 50mm is maintained between any mains and/or control cables and the remote indicator leads at all times.

The Earth connection IS REQUIRED.

4 PHYSICAL LAYOUT

Mounting Diagram



Live Line Indicator and Remote Display

2 SPECIFICATIONS

The LLi module is designed to couple directly across any 3 phase electrical system that is rated within the voltage as specified below. All components in the barrier network are rated at 2.5 times the maximum network voltage impressed on them, relative to the maximum system voltage. The barrier components are impulse voltage rated to 7 times the maximum network voltages applied.

The LED network in the indicator is engineered to operate at the lowest practical power level to ensure maximum LED life.

The module case is rated to Bin VDE 0110, 600V between terminals.

System Voltage	660 – 1100V AC 50/60Hz	
Phase Voltage	Nominal - 240 – 700V AC 50/60Hz	
Test Voltage	AC 2000 Volts for a maximum of 1 minute (Ph to Earth) DC 3500 Volts for a maximum of 1 minute (Ph to Earth)	
Phase Loadings	AC 100K Ohms DC 20M Ohms	
Remote Display	24 Volt AC maximum touch potential Note - Earth must be connected	
LLi Module	<i>Dimensions:</i>	70mm W x 155mm L x 55mm H
	<i>Material:</i>	Encapsulated Polycarbonate construction.
	<i>Mounting:</i>	4 x 4.5mm holes at 140mm L x 50mm Wide (see diagram above)
	<i>Connections:</i>	3 x phase and 1 x earth flexible wires from one end, 1m long each of 32/0.2, 0.6/1Kv, V90 PVC
	<i>Weight:</i>	550gms
Remote Display:	<i>Panel cut out</i>	22.5mm diameter
	<i>Bezel</i>	30mm diameter x 20mm projection
	<i>Depth</i>	50mm excluding cable
	<i>Connection LLi</i>	1 m x 4 core cable
	<i>Weight</i>	80gms
	Totally encapsulated IP 67 High Intensity LEDS	
Operating Temperature	-25 to +65° C	
Ordering Information	LLi Module	660 – 1100vAC Part Number A00726
	Remote Display	Part Number A00758

3 TYPICAL CONNECTIONS

