



LLM3 LIVE LINE MONITOR

PART NUMBER | LLM3-1L1010

LLM3 Live line monitor is used to indicate the presence of voltage in the three-phase power supply.

Each of the monitored phases is indicated by a LED display with an appropriate marking, e.g. L1, L2, L3. The red LEDs of the relevant indicator go out when the phase fails.

An additional external LLI3 phase presence indicator provides a convenient view of the power network status at the control cabinet door.

FEATURES	INPUT	GALVANIC ISOLATION
L1 L2 L3	V AC	Supply

Advantages of **LLM3 + LLI3** set:

SAFETY

LLI3 indicator operates with low voltage potential due to full galvanic isolation from the power network.

VERSATILITY

Signaling available inside the control cabinet (LLM3 monitor) and on the board (LLI3 indicator).

RELIABILITY

Each phase is signaled by two independent LEDs and the analogue design provides resistance to electromagnetic interference.

CONVENIENCE

Red LEDs for clear visibility in all conditions.

TECHNICAL DATA

INPUT	
Measured quantity	Measurement range
Voltage	U L-N: 190...230...400 V a.c. U L-L: 330...400...690 V a.c.

EXTERNAL FEATURES		
	LLM3	LLI3
Readout field	3 double signal diodes (LED, red colour)	
Weight	< 0.4 kg	< 0.2 kg
Dimensions	57 x 110 x 60 mm	50 x 50 mm length of the attached cable: 2m
Protection degree	from the frontal side: IP50 from the terminal side: IP00	from the frontal side: IP61
Mounting	on 35 mm rail	in a panel

RATED OPERATING CONDITIONS		
	LLM3	LLI3
Temperature	ambient: 0...+55°C	
Humidity	< 95% inadmissible condensation	
Working position	any	
Power consumption	< 1.2 VA	< 0.1 VA

SAFETY AND COMPABILITY REQUIREMENTS		
	LLM3	LLI3
Isolation between circuits	insulation between the input circuits (terminals 1-9) and the output circuit of the indicator (terminals 15 – 18) basic (60s / 3.51kV a.c.)	-
Maximal phase-to-earth voltage	400 V	24 V



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CONNECTION DIAGRAMS

External indicator LLI3 (option)

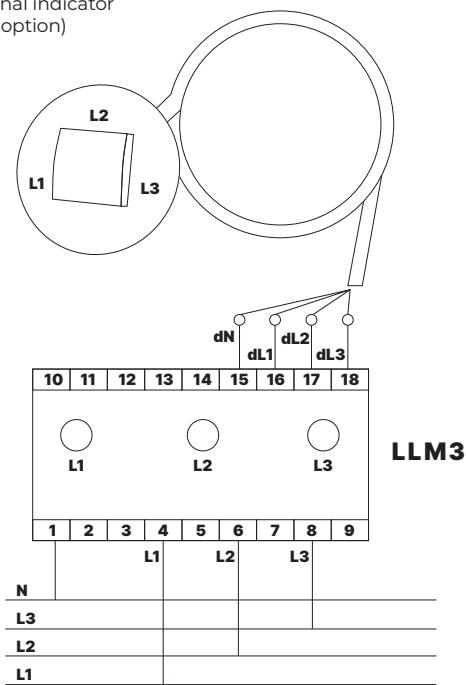


Fig.1. Electrical connections diagram of LLM3

L1, L2, L3 monitored voltage phases

N neutral wire

dN connection of the GND signal of the Live Line Indicator LLI3 (green wire)

dL1 connection of the signal controlling the L1 phase diodes of the LLI3 LED indicator (white wire);

dL2 connection of the signal controlling the L2 phase diodes of the LLI3 LED indicator (gray wire);

dL3 connection of the signal controlling the L3 phase diodes of the LLI3 LED indicator (brown wire);

DIMENSIONS

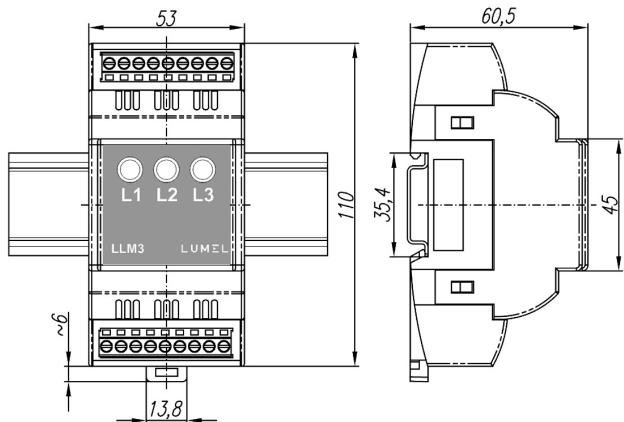


Fig.2 Dimensions and installation method of the Live Line Monitor

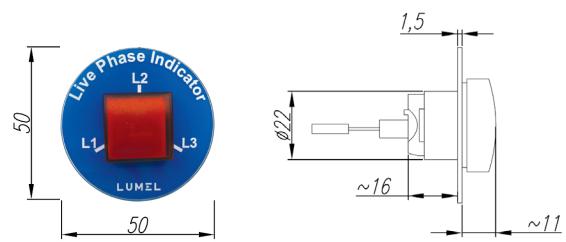


Fig.3 Dimensions and installation method of external Live Line Indicator LLI3



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