



Integrated Voltage Detecting System



General

The integrated voltage detecting system LLI conforms with the requirements for voltage detection systems of the valid VDE 0682 Section 415 (IEC 61243-5). It is a 3 Phase system with which the following conditions of a medium voltage network are indicated:

- Voltage not present : No indication
- Voltage Present : Arrow shown for each phase with L1, L2, L3 description

Adaption to different types of RMU can be made from the model selection of unit.

Design

The integrated voltage detecting system LLI is located in a panel mounted housing. The display is designed as an LCD in the front, the symbol arrow, corresponding to voltage presence is shown in black. arranged on the front panel are also a LRM test point for connecting a phase comparator for LRM - interfaces. As protection against corrosion, the test point is provided with a captive plug. The unit works without external power, the display gets energised from the measuring signal.

Technical Data

Applied standard: IEC 61243-5	:	(voltage detecting system)
Indication per phase	:	$U < 10\%$ of U_N no voltage -> no indication $U > 10\%$ of U_N voltage present -> arrow
Housing	:	front panel mounting, plastics
Dimensions	:	H x W x D = 48x96x37 mm
Recommended cut	:	H x W = 45 x 92 mm
Operating temperature	:	-25 C to +70 C
Storage temperature	:	-30 C to +80 C
Protection class	:	Ip54
Connectors for signal leads	:	fast-on receptacles 4.8 x 0.8 mm
Required data for order	:	capacitance of coupling electrode C1 rated voltage U

Model	U=	C1=	C2=
CSE-LLI-01	3.5<U<=7kV	24pF	4700 pF
CSE-LLI-02	7<U<=10kV	24pF	10000 pF
CSE-LLI-03	10<U<=24kV	24pF	15000 pF
CSE-LLI-04	3.5<U<=7kV	66pF	15000 pF
CSE-LLI-05	7<U<=10kV	66pF	22000 pF
CSE-LLI-06	10<U<=24kV	66pF	47000 pF

Principle of the capacitive voltage detecting system

