

# DKM-185

## LRM CAPACITIVE VOLTAGE INDICATOR



### DESCRIPTION

**DATAKOM DKM-185**, is a safety unit displaying the existence of hazardous voltages on MV installations. The operation principle resides on busbar voltage measurement through a capacitive divider bridge. In order to provide a high level of safety, LCD displays operate directly from the isolator current. Thus displays will be operative even in the absence of DC auxiliary supply voltage.

The unit is provided in 2 variants as relayless or relay versions. The DC-ON led will indicate the availability of the auxiliary DC supply voltage on relay version.



**WARNING:** If DC-ON led is off, then relay outputs will not operate.

Conformally the EN61243-5 standard, if any phase voltage is above  $0.45U_n$  the related display turns on and the relay output becomes active. If the phase voltage is below  $0.1U_n$  then the related display will turn off. If all phase voltages are below  $0.1U_n$  then the relay is off.

The unit is polarized to ground and does not carry hazardous voltages. For verification, divided voltages are also available on the front panel test terminals.

The unit will come together with its watertight gasket for test terminals and panel installation.

Units are specially manufactured for usage conditions. Together with the order, the capacitive isolator value (pF) and the busbar voltage should be specified.

The relay version's power supply is an isolated switchmode and does not polarize the DC busbar.

### CONNECTIONS



### FEATURES

**Wide operating voltage range (1kV-52kV)**

**EN61243-5 LRM conformal detection**

**Independent indicators for each phase**

**Test terminals (3 phase + ground)**

**1 relay output (5Amp)**

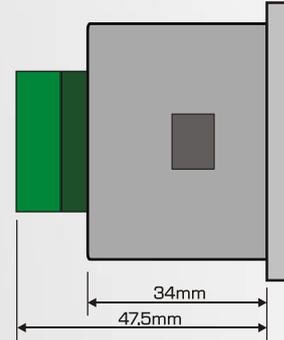
**DC-ON led indicator**

**Wide DC supply range (19-150VDC)**

**Isolated power supply**

**Wide operating temperature range (-20...+70°C)**

### SIDE VIEW



### TECHNICAL SPECIFICATIONS

**Operating voltage range:** 1kV-52kV

**Auxiliary supply:** 19-150V-DC

**Power consumption:** maks. 1W

**Relay output current:** 5 amps max

**Operating temperature range:** -20°C to +70°C

**Relative humidity:** max. %95 (non-condensing)

**Dimensions:** 100x53x52.5mm

**Panel cutout:** 92x45mm minimum. (DIN 1/8)

**Weight:** 150gr (yaklaşık)

**IP Protection:** IP20

**Enclosure:** High temperature, flame retardent ABS/PC

**Mounting:** Flush mounted with rear retaining brackets

### ORDERING INFORMATION

DKM185 - 1 - 34 - 50 - 2					
0	Contact	Operating Voltage (kV)	Isolator Capacity (pF)	0	Parallel Units
1	#			1	
				2	



REV-01