

## VOLTAGE INDICATOR TYPE EL

### General description

The voltage detector type EL is used in medium voltage networks to determine the voltage presence. The voltage detector is manufactured and tested according to the requirements of IEC 61243-1 (DIN VDE 0681 Part 411). It does not need any auxiliary power and has a self-testing device. It is constructed as single unit.

The voltage detector consists of an indication device with a M8 external screw thread, on which different test electrodes can be screwed. For an easier transport, the size of the voltage detector can be reduced by twisting off the extension and fixing it in the opposite direction.

To protect the unit, a transportation bag is available. The voltage detector type EL is available for 6 kV, 10 kV, 15 kV or 20 kV applications.



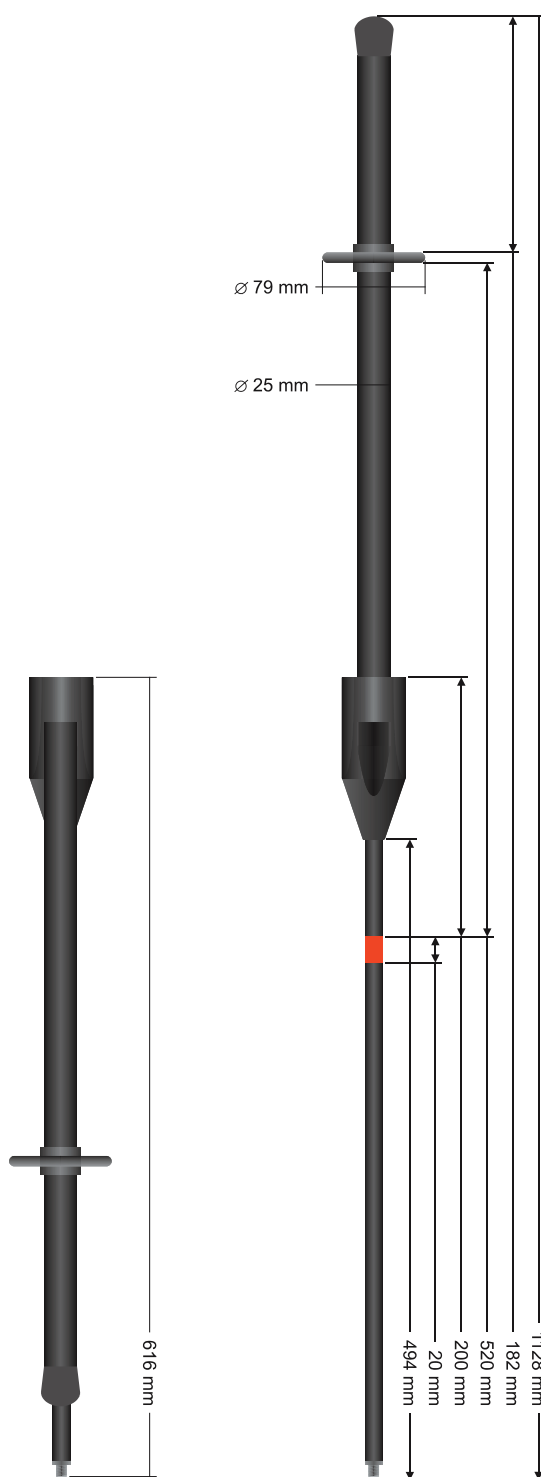
figure 1 - transport condition



figure 2 - ready for operation

### General Data

Subject	Value
applied standard	IEC 61243-1 (DIN VDE 0681 Part 411)
rated voltage	6 kV / 10 kV / 15 kV / 20 kV
frequency	50 Hz
protection class	IP65
area of application	indoor
indication of voltage	blinking LEDs
visibility	visible at 1000lux (+/- 10%) with standard light A according to CIE 15.2
blinking frequency	min. 60 times per minute
self-test	by push-button
power supply	not necessary
dimensions	length in operating condition: 1128 mm (6kV,10kV) / 1228 mm (15kV, 20kV) length in transport condition: 616 mm (6kV, 10 kV) / 718 mm (15kV, 20kV)
operation temperature range	-25°C to +70°C
operating voltage	testing voltage
a) in-phase interference field	a) $0,45 \times U_N$ - indication "voltage present"
b) out of phase interference field	a) $0,60 \times U_N$ - indication "voltage not present"
c) separate source voltage	a) $0,10 \times U_N$ - indication "voltage not present"
material	
a) housing	a) ABS GF 20%
b) tube	b) epoxy tube WT912
weight	0.550 kg (6kV, 10kV) / 0.575 kg (15kV, 20kV)



Maßstab/scale: *not to scale*

Name: Voltage detector type EL (6kV, 10kV)

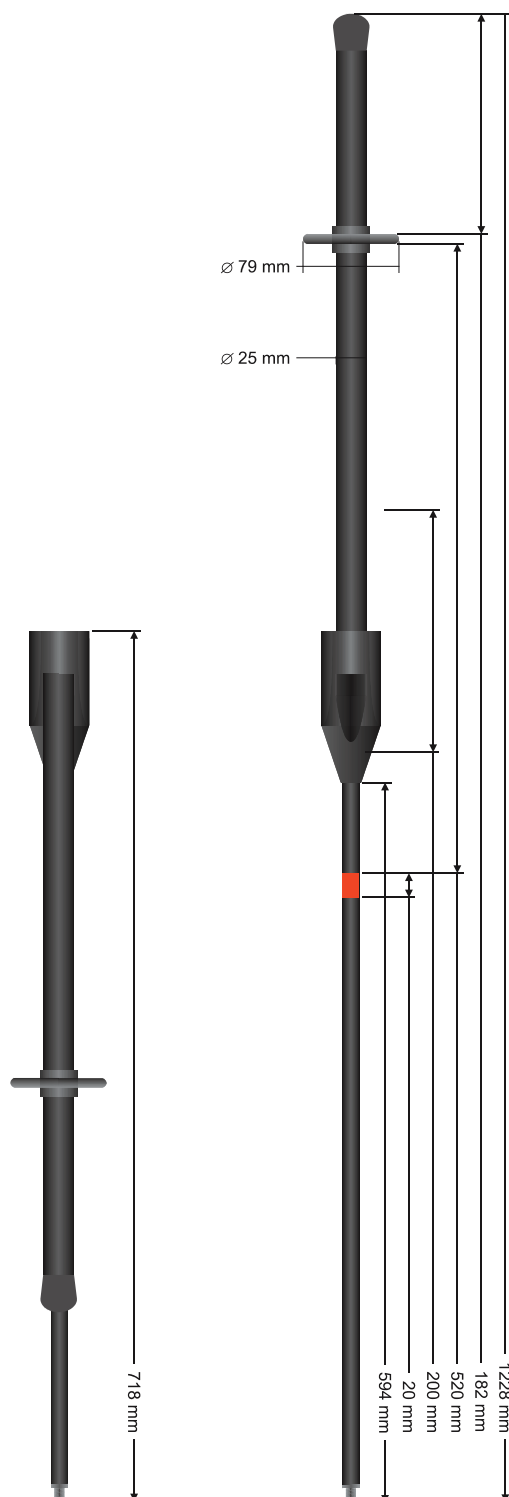
Erstellt am/von: D. Kusserow/  
created on/by: 25.04.2017



Elektro-Mechanik GmbH  
42553 Velbert  
Germany

Status: ☐ ungültig/invalid  
Ersetzt durch/replaced by: XX.XXXX.XX

Zeichnungsnummer/  
drawing number:  
**321652.01**



Maßstab/scale: *not to scale*

Name: Voltage detector type EL (15kV, 20kV)

Erstellt am/von: D. Kusserow/  
created on/by: 25.04.2017



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Status: ☐ ungültig/invalid

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