

BO-A 2.0

For railway overhead contact lines



BO-A 2.0

Product feature

- VDE version – according to DIN VDE 0681-6
IEC version – based on IEC 61243-1 category S
- Pluggable system – minimal setup
- Integrated self-test – greater safety
- Light weight – easy handling and transportation
- Length of 4.7 m – voltage detection from the ground

The BO-A 2.0 is a voltage detector for medium voltage railway overhead contact lines. It is designed to detect the absence or presence of voltage during maintenance work for example. The voltage detector BO-A 2.0 is developed for 16.7 Hz, 50 Hz and 60 Hz networks. If the voltage detector BO-A 2.0 is used in network with a deviating frequency, a visual and audible signal is activated. In this case the network situation must be verified.

The BO-A 2.0 is designed according to IEC 61243-1 resp. VDE 0681-6, depending on the version. The voltage detector is ready for the worldwide market.

According to the German accident prevention standard DGUV Regulation 3 (Table 1c), the device is subject to maintenance tests with minimum intervals of at least 6 years.

Technical data	BO-A 2.0
Application	In dry and wet conditions
Indication	"Ready-to-operate state": green LED (after passed self-test) "Voltage present": red LED and audible signal "Voltage not present": green LED and no audible signal
Period of "Stand-by state"	65 s ±15 s
Type of indication	According to group III IEC 61243-1
Nominal voltage / nominal frequency	VDE version: 11 kV/16.7 Hz or 15 kV/16.7 Hz IEC version: 15 kV/16.7 Hz, 25 kV/50 Hz or 25 kV/60 Hz
Properties of the insulating rod	Passed test as insulating element for leakage current at 1.2 x Vr for 1 min
Power supply	Lithium cells, battery service life: 6 years based on 10 ready-to-operate cycles per day for a total of 230 work days per year
Transportation length	<1,111 mm
Minimum length insulating element	>520 mm
Temperature range	-25 to +70 °C, climatic class N and W

Nominal voltage [kV]/ nominal frequency [Hz]	Total length a [mm]	Insertion depth b [mm]	Order no.	
			BO-A 2.0 (VDE version) 🏠 🌧️ 👁️ 🔊	BO-A 2.0 (IEC version) 🏠 🌧️ 👁️ 🔊
11/16,7	4,700	1,790	50-1510-001	–
15/16,7	4,700	1,790	50-1510-002	–
15/16,7	4,700	1,790	–	50-1511-001
25/50	4,700	1,790	–	50-1511-002
25/50	4,700	1,790	–	50-1511-003



Use of transportation bag



Use of two transportation bags

Accessories	Order no.
Transportation bag ¹⁾ , reflection orange	52-0104-106
Transportation bag ¹⁾ , reflection yellow	52-0104-107

1) Dimensions: 1130 x 340 x 100 mm (L x H x D)



Transportation bag with BO-A 2.0



Pluggable system BO-A 2.0