BO-A 2.0

for Railway Overhead Contact Wires

- **Pluggable system** – minimal setup
- **Integrated self-test** – greater safety
- **Light weight** – easy handling and transportation
- **Indoor, outdoor and wet weather** – one product for all applications
- **Length of 4.7 m** – voltage detection from the ground

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The BO-A 2.0 is a **voltage detector** for medium voltage **railway overhead contact wires**. It is designed to detect the **absence** or **presence of voltage** during maintenance work for example. The voltage detector BO-A 2.0 is especially developed for **16.7 Hz networks**. If the voltage detector BO-A 2.0 is used in a 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** or **VDE 0681-6,** depending on the version. The voltage detector is ready for the **international market**.

Technical Data	**BO-A 2.0**
Use	In dry and wet conditions
Indication	“Stand-by 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	Group III according to IEC 61243-1
Nominal voltage / nominal frequency	VDE version with extension: 11 kV / 16.7 Hz or 15 kV / 16.7 Hz IEC version without extension: 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 batteries 3 V, CR 123 A 6 years based on 10 ready cycles / day and 230 days / year
Temperature range	-20 to +70 °C, class N and W
Total weight	VDE version: 3,060 g ±50 g IEC version: 3,000 g ±50 g
Transportation length	<1,125 mm
Minimum length insulating element	>520 mm
Design	Category S (with contact electrode extension) according to IEC 61243-1

Nominal voltage [kV] **Nominal frequency [Hz]**	**Total length [mm]** ±50 mm	**Insertion depth [mm]**	**Order No.**	
			BO-A 2.0 (VDE version)	**BO-A 2.0 (IEC version)**
11 kV / 16.7 Hz	4,745	1,790	50-1510-001	–
15 kV / 16.7 Hz	4,745	1,790	50-1510-002	–
15 kV / 16.7 Hz	4,720	870	–	50-1511-001
25 kV / 50 Hz	4,720	870	–	50-1511-002
25 kV / 60 Hz	4,720	870	–	50-1511-003

Dipl.-Ing. H. Horstmann GmbH ▪ Humboldtstraße 2 ▪ 42579 Heiligenhaus
T +49 2056/976-0 ▪ F +49 2056/976-140 ▪ www.horstmanngmbh.com

HORSTMANN GERMANY