



## Voltage detectors for electrical installations of public transport (trolley/tramway)

**Code: DTTU-Tb - for trolley**  
**DTTU-Tv - for tramway**

The voltage detectors DTTU-Tb / DTTU-TV are designed to check and signalize the presence of voltage through direct contact with the conductors of power networks for urban transport (trolley/tramway) (825 V DC).

Before each use, the detectors must be self-tested by pressing the test button. If the battery is charged and the electronic circuits are functioning normally, once pressing the test button, the detector will optically and acoustically signalize. After validation of self-test, the voltage detector is brought in direct contact with the conductor.

In the presence of DC voltage, the detector lights up a red LED - for reverse polarity - or green LED - for normal polarity - (visible in high ambient lighting conditions) and releases acoustic signals (higher than 69 dB (A)). In the presence of AC voltage, the detector lights up both red and green LEDs.

The **DTTU-Tb detector** contains two insulating sticks (including the electronic circuits) in order to get in contact with the trolley's contact lines. Also this detector can be used in cabinets (injection points).

The **DTTU-Tv detector** contains a single insulating stick (including the electronic circuits) in order to get in contact with the tram's contact line connected through an insulated conductor (8 m length) with pliers for the contact with the tram's rail.

The checking of voltage can be performed by remote, using an appropriate insulating stick + an appropriate adaptor (e.g. telescopic stick PTU-AS-400-4c + adaptor **AC-DTTU** or modulated stick PMU 400-3 B/ba + adaptor **AB-DTTU**).



DTTU-Tb



DTTU-Tv



AC/DTTU-TV



AB/DTTU-TV

### Technical characteristics

Maximum operating voltage (V DC)	1000
Intermittent optical and acoustic signaling, in bipolar connection, for voltages higher than (V DC)	130 ± 20
Test voltage for dielectric rigidity check (V/1min)	6000
Power supply	9 V battery 6LR61 type
Temperature range - operation / long term storage (°C)	-25 ...+55 / -10...+45
IP protection	IP 20
Weight DTTU Tb / DTTU Tv (kg)	1,35 / 1,19



## ELECTRICAL TESTING SERVICES

Romind T&G provides electrical tests carried out in its High Voltage Testing Laboratory.

Our laboratory has RENAR accreditation for the following areas:

- a) Measurement of the threshold voltage at capacitive voltage detectors (1-400 kV);
- b) Dielectric test with AC voltage at industrial frequency (0-100 kV, 50 Hz) for electrical equipment designed for electrical hazard protection (gloves, boots, plates, platforms, covers, ropes, end caps, sleeves, false fuses, etc) insulating sticks and capacitive voltage detectors.

