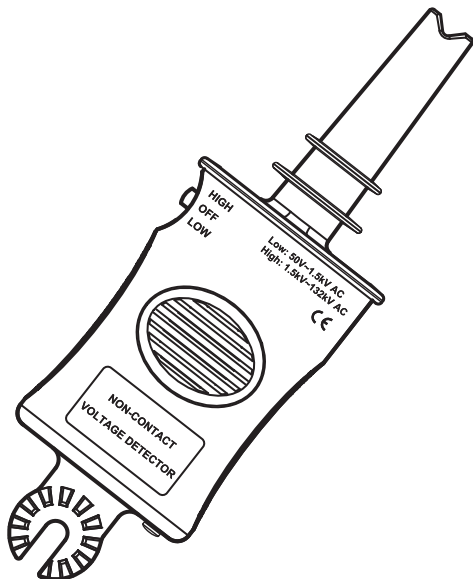


Non-Contact Voltage Detector

BST-HVD18



INSTRUCTION MANUAL

| INDEX | Page |
|-----------------------------------|-------------|
| 1. INTRODUCTION..... | 1 |
| 2. SAFETY PRECAUTION..... | 2-3 |
| 3. APPLICATIONS..... | 3 |
| 4. FEATURES & SPECIFICATIONS..... | 3-4 |
| 5. INSTRUMENT LAYOUT..... | 5 |
| 6. OPERATION..... | 6-8 |
| 7. MAINTENANCE..... | 9-10 |

1. INTRODUCTION

NOTE

This detector has been designed and tested according to CE Safety Requirements for Electronic Measuring Apparatus. Follow all warnings to ensure safe operation.



WARNING

**READ "SAFETY PRECAUTION" (NEXT PAGE)
BEFORE USING THE NON-CONTACT VOLTAGE
DETECTOR.**

2. SAFETY PRECAUTION

Electricity can cause severe injuries with high voltages. Therefore it is very important to read the following info before using the Non-contact Voltage Detector.

This must only be used and operated by a competent trained person and in strict accordance with the instructions. We will not accept liability for any damage or injury caused by misuse or non compliance with instructions and safety procedures.

Examine the Non-contact Voltage Detector to make sure it is clean and dry. If it is not, wipe with a clean, dry, lint-free cloth.

The Non-contact Voltage Detector test should always be used as an indication only.

Read all safety information carefully before attempting to operate or service the Non-contact Voltage Detector.

Use the Non-contact Voltage Detector only as specified in this manual. Otherwise, the protection provided by the Non-contact Voltage Detector may be impaired.

Please keep in your mind to wear high insulated gloves when you test high voltages between 600V~1.5kV.

Please keep in your mind to wear high insulated gloves and to use the hot stick or telescopic hot stick when you test high voltages between 1.5kV~132kV.

3. APPLICATIONS

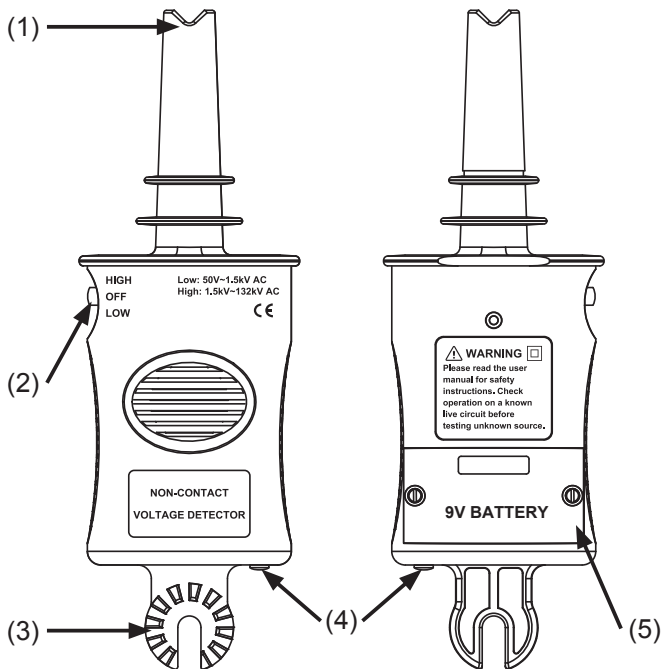
- Non-contact detection of live voltages
- Find faults in cables
- Check and detect live high voltage cables
- Trace live wires
- Check high frequency radiation
- Check grounding equipment
- Detect residual or induced voltages

4. FEATURES & SPECIFICATIONS

- Power and range selection switch
3 positions: HIGH / OFF / LOW
- 2 ranges for selection
Low : 50V~1.5kV
Select the range of LOW (Low voltage range), the Non-contact Voltage Detector is ready for low voltage detection.
HIGH :1.5kV~132kV
Select the range of HIGH (High voltage range) , the Non-contact Voltage Detector is ready for high voltage detection.

- Power consumption :
 - OFF : 0uA
 - Low voltage detection mode: Less than 20mA
 - High voltage detection mode : Less than 20mA
- Duty cycle : Continuous
- Response time : Instantaneous
- Operating temperature : 0°~50°C
- Power source : **Alkaline battery** 9V x 1
- Dimensions : 245(L) x 80(W) x 37(D) mm
- Weight : Approx. 175g (Battery included)
- Safety standard : EN 61326-1
- Accessories : Instruction manual
 - Carry case
 - Battery
- Optional accessory:
 - Telescopic hot stick
 - Hot stick

5. INSTRUMENT LAYOUT



(1) Voltage sensor
(2) Power and range selection switch

(3) The connection point of Hot Stick
(4) Blue LED for indication
(5) Battery cover

6. OPERATION

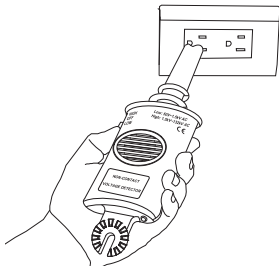
- **Power and range selection switch**

When users turn on the Non-contact Voltage Detector, the blue LED will flash and the buzzer will generate a sound intermittently, Select "HIGH" range for high voltage detection, "LOW" range for low voltage detection.

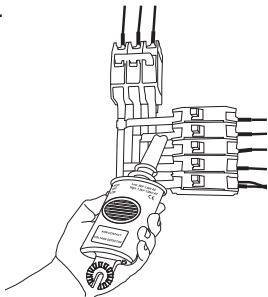
- **LOW range (Low voltage detection)**

Select the range of LOW (Low voltage range), the blue LED will flash and the buzzer will generate a sound intermittently.

The LOW range for low voltage detection 50V~1.5kV Place the sensing tip of the Non-contact Voltage Detector near a low voltage line (50V~1.5kV), but not touching the line, the blue LED will glow and the sound will last continuously.



Voltage detection
for a wall outlet



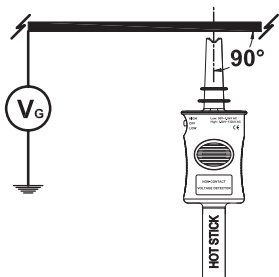
Finding a breaker

- **HIGH range (High voltage detection, Telescopic hot stick or Hot stick must be attached)**

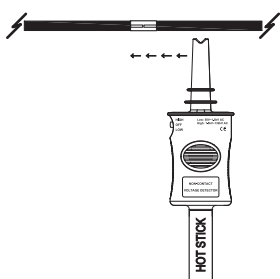
Select the range of HIGH (High voltage range), the blue LED will flash and the buzzer will generate a sound intermittently.

The HIGH range for high voltage detection 1.5kV~132kV.

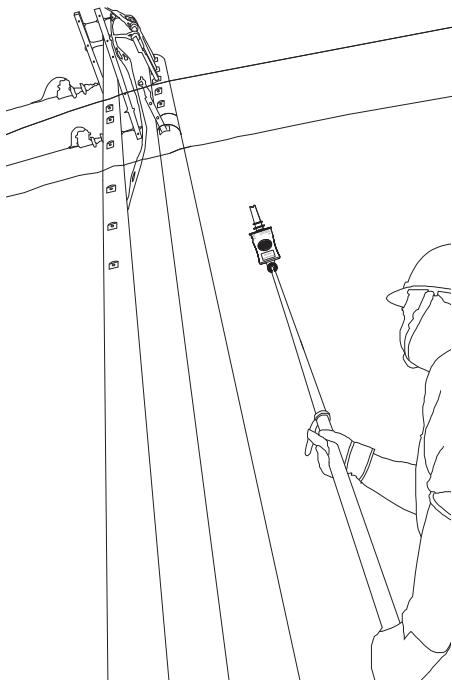
Place the sensing tip of the Non-contact Voltage Detector near a high voltage source (1.5kV~132kV), but not touching the high voltage source, the blue LED will glow and the sound will last continuously.



The ideal detection angle



Finding a break of cable

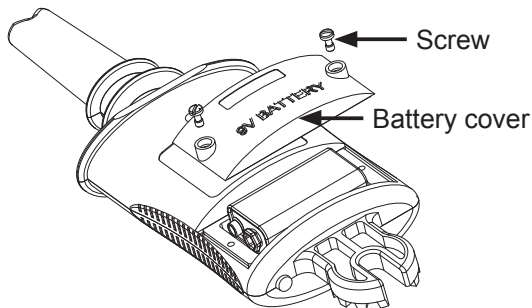


Voltage detection for a line

7. MAINTENANCE

- Battery replacement

- (1) Unscrew the battery cover on the rear with a screwdriver, then slide the battery cover off the tester.
- (2) Take out the battery.
- (3) Replace with a new battery (Alkaline battery 9V).
- (4) Reinstall the battery cover and fasten the cover screws.



- Cleaning and Storage :



WARNING

To avoid electrical shock or damage to the meter, do not get water inside the case.

- (1) Periodically wipe the case with a damp cloth and detergent; do not use abrasives or solvents.
- (2) If the detector is not used for periods of longer than 60 days, remove the battery and store them separately.