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PROMAT BI15
Your Security To Textile Instruments

INT

**BEDIENUNGSANLEITUNG
OPERATING MANUAL
MANUEL D'UTILISATION**



TROTEC
AT WORK.

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Notes regarding the operating manual

Symbols



Hazardous electric current!

Warns about a hazard from electric current which can lead to injuries or even death.



Risk from laser radiation!

Warns of injury risk from laser radiation.



Caution!

Warns of a hazard which can lead to damage to property.

Legal notice

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Safety

Intended use

This device is exclusively intended for detecting wood, metal and live AC cables in the range specified in the technical data. People who use this device must have read and understood the operating manual, especially the "Safety" chapter.

Improper use

The device may not be used in potentially explosive atmospheres, when wet or very humid. Trotec accepts no liability for damages resulting from improper use. In such a case, entitlements to a warranty are forfeited.



Caution!

- Do not use abrasive cleaners or solvents to clean the device.
- The device must not be exposed to direct sunlight, high temperatures or humidity! Otherwise, the insulation or electronics of the device can be damaged.
- Do not use the device when the battery compartment or the housing are open.
- Do not leave the packaging lying around. Children may use it as a dangerous toy.
- The device is not a toy and does not belong in the hands of children.



Risk from laser radiation!

- Do not look into the laser beam. Do not point the device at people.



Danger!

- Cables and connections can differ in terms of construction, shielding and insulation, which can influence the AC power detection.

Personnel qualifications

People who use this device must:

- know and understand the dangers of working on live parts;
- take measures to protect themselves from direct contact with live parts;
- have read and understood the operating manual, especially the Safety chapter.

Technical data

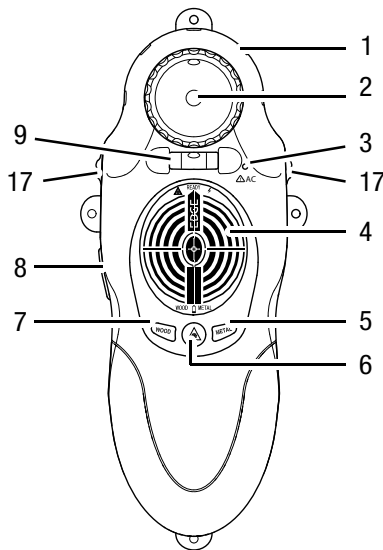
Model	BI15
Weight	180 g
Dimensions H x W x D	180 x 67 x 38 mm
Laser output	< 1 mW (630–670 nm)
Laser class	II
Laser accuracy	12.7 mm at 6.1 m
Maximum range of the laser	up to 6.1 m
Rotation of the laser	180° in 45° steps
Operating temperature	-7 °C to +49 °C (19.4 °F to 120.2 °F)
Storage temperature	-29 °C to +66 °C (20.2 °F to 150.8 °F)
Relative humidity	33-55 %
Maximum detection depth for wood	up to 19 mm (3/4")
Maximum detection depth for metal + live cables	up to 38 mm (1 1/2")
Power supply	9 V battery

Description of the device

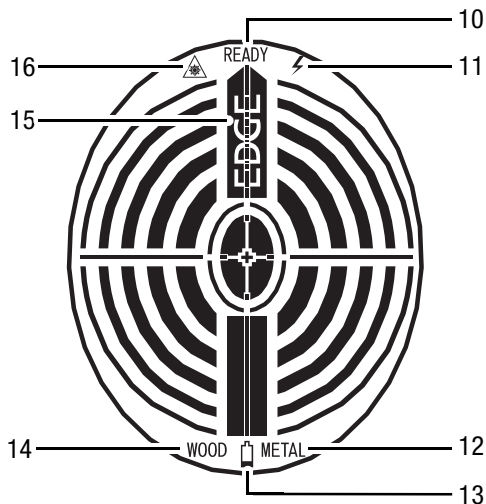
Functional description

Using the locating device BI15, cables, wooden beams or metal braces to a depth of 19 mm can be located in walls or floors. The exact position of beams and braces is detected and shown in the display as edges. The laser pointer rotates by 180° to show where other beams are found. For precision, two spirit levels are built into the device. The adjustment wheels are used to precisely align the device on uneven surfaces.

- | | |
|------------------------------|-----------------------|
| 1. Laser pointer | 2. Bulls eye level |
| 3. LED (AC voltage detected) | 4. Display |
| 5. "METAL" button | 6. "Laser" button |
| 7. "WOOD" button | 8. "On" button |
| 9. Spirit level | 17. Adjustment wheels |



Display



Operation

Calibration

So that the detection works, the device must first be calibrated on the surface to be tested.

Dense material and damp or recently painted walls can influence the calibration.

1. Place the device on the surface to be tested in a position under which there is no metal or wood.
2. Press and hold the "On" button (8) during the calibration and the subsequent measurement.
 - All symbols appear on the display for one second.
 - The "WOOD" (14) or "METAL" (12) symbols flash depending on which material was set beforehand.
 - After 3 seconds, a beep is emitted and the "READY" symbol (10) appears.The calibration is complete.

Wood detection

3. Press the "WOOD" button (7).
 - The "READY" (10) and "WOOD" (14) symbols appear.
4. Push the device over the surface in a straight line.
 - If wood is detected, lines appear in the display. When near wood, the lines in the middle of the display move closer to the middle of the display (see figure on page B - 6).
 - If an edge is detected, the "EDGE" symbol (15) appears and a beep is emitted.

Metal detection

3. Press the "METAL" button (5).
 - The "READY" (10) and "METAL" (12) symbols appear.
4. Push the device over the surface in a straight line.
 - If metal is detected, lines appear in the display. When near metal, the lines in the middle of the display move closer to the middle of the display (see figure on page B - 6).
 - If an edge is detected, the "EDGE" symbol (15) appears and a beep is emitted.

AC power detection

AC power detection is always activated. If a live AC cable is detected, the LED (3) glows and a beep is emitted.

Laser pointer

Press the "Laser" button (6) to switch the laser on/off. Turn the bulls eye level (2) to rotate the laser pointer in 45° steps.

Switching off

The device switches off as soon as you release the "On" button (8).

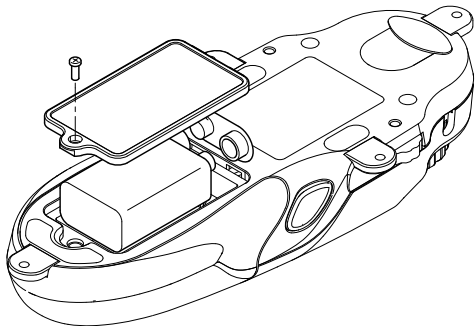
Maintenance and repair

Battery change



Caution!

Make certain that the surface of the device is dry and the device is switched off.



Cleaning

Clean the device with a soft, damp and lint-free cloth. Ensure that no moisture enters the housing. Do not use any sprays, solvents, alcohol-based cleaning agents or abrasive cleaners. Only use clean water to moisten the cloth.

Repair

Do not modify the device or install any spare parts. For repairs or device testing, contact the manufacturer.

PROMAT (HK) Limited 寶時（香港）有限公司

☎ : 2661 2392 ☎ : 5196 8860 ✉ : info@promat.hk 🌐 : http://www.promat.hk

