

Letter Bomb Detector MB1710A



- **Detection of explosive charges in letters and parcels**
- **High detection sensitivity**
- **Several thousands of letters per hour**
- **Ease of operation**
- **Clear alarm signal**
- **Battery powered and mains operated**

General

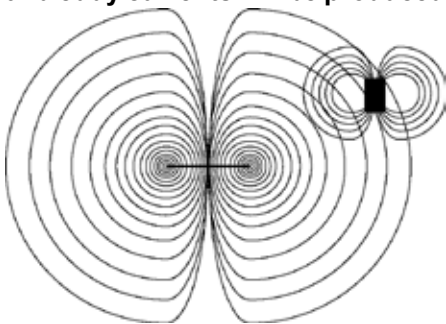
Letter bombs and explosive charges in the mail are very dangerous objects, which can be dispatched over large distances without any problem for the sender. As it is not possible to judge by appearance of the mails only, a special and most efficient detection method is required.

The MB 1710A allows to detect most effectively and reliably metal-content explosive charges.

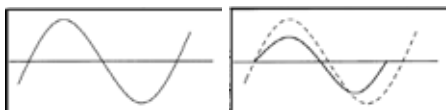
Detection Principle

The detection is based on the eddy current principle. A sinusoidal alternating current is led through the detection coil and produces an alternating magnetic field.

Metal objects entering into this magnetic field are affected by this field and eddy currents will be produced



in the metal object which affect the detector coil.



This reaction is processed by the electronics and indicated as audio and visual alarm signal.

The detection sensitivity of the MB1710A is very high and can be adjusted individually. Eventual metal parts of a table can be compensated.

Practical Operation

The detector MB 1710A is designed as table unit and does not need more space than a PC. It can be connected to the A.C. power supply or operated autarkically with re-chargeable batteries. The rechar-



geable batteries are built in and are automatically charged when the MB1710A is connected to the mains.

The detector is positioned on a table and the letters are moved over the sloping detection area. Due to the slope and the force of gravity the letter will normally slide itself over the detection area.



You can also examine parcels or bigger letters. To extend the active detection area, remove both lateral guide beads. May be you have to

check the parcel from several sides in order to scan the complete surface.

The MB 1710A will indicate components of ignition devices, batteries and something similar, provided that they are made from metal, as well as all metal objects (even paper clips).



The detection sensitivity is therefore continuously adjustable.

Technical Data

Detection area: 280 x 250 (mm)

Operation elements: On-Off-switch
Control knob for continuous sensitivity setting

Mode: Mains and battery operated, accumulator and charging set are integrated

Power supply: 230 V, 50 Hz

Emergency: appr. 2h (accum.)

Alarm: Audio signal via loudspeaker
500-2500 Hz
Visual signal (LED)

Dimensions: 420x310x140 mm
Weight: approx. 4.5 kg

NATO-Stock-Number:
6665-12-355-2399

All technical data are subject to change without prior notice.

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