TS67 METAL DETECTOR

MAIN FUNCTION

This instrument is an advanced device which can detect metallic object in nonmetallic object quickly and precisely.

1. It can be used in post office to detect metallic object in letters and post parcels for safety.
2. It can be used in factories of wood product to detect metallic nail in wood.
3. It can be use in food company to detect metallic object in material and product.

FEATURE

1. Light weight. It can be used when being carried by hand or being in a changeless position.
2. Easy to operate. To use it, just push the switch of power. When this unit is in the environment where there are many other metallic objects producing disturbance, you should adjust this unit with a screwdriver.
3. No harm to people and environment.

OPERATING CONDITION

1. Operating temperature: -15℃ ~ 45℃
   Relative humidity: < 80%
2. No other biggish metallic object within the distance of 50cm from this instrument.
3. Don't shake this unit under use

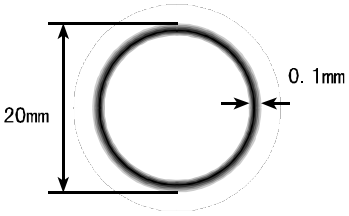


figure 1

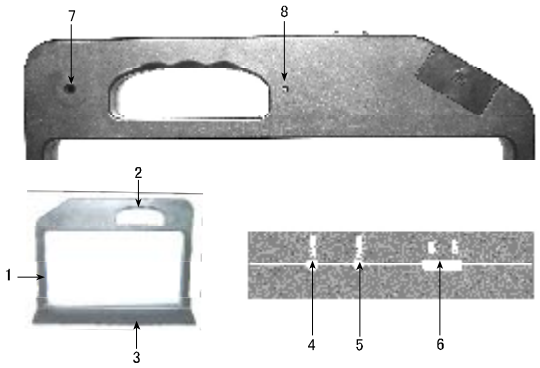
TECHNICAL SPECIFICATION

Detecting Sensitivity: a. M 3 X 12 screw
b. ϕ20mm ring (diameter of the ring lead: ϕ0.1mm)(see figure 1)

Power Consumption: 5 mA (in waiting state)
15mA (in alarm state)

STRUCTURE(see right figure)

1. Detecting loop
2. Handle
3. Base
4. Red lamp
5. Green lamp
6. Power switch
7. Buzzer
8. Sensitivity-adjustment hole



OPERATION INSTRUCTION

1. Remove the cover of battery compartment, install a 9-Volt (6F22) battery, rejoin the cover.
2. Place the instrument on a desk where there is no disturbance, switch the power supply on. If the voltage of the power supply is normal, the green lamp will light. If the green lamp doesn't light, it shows that the battery is not good and you should replace it with a new one.
3. When object to be tested passes through the detecting loop, it shows that there is smaller metallic object inside the tested object if the instrument gives alarm of sound and the red lamp lights.
   If the unit is used when being carried by hand, make sure that this unit is far away from any metallic object of the user, such as watch, buckle, glass frame, necklace, finger ring, etc.
4. When this unit is in use, its sensitivity will be affected if there is biggish metallic object nearby or obvious change of temperature. According to different environment, user can adjust the unit for optimum sensitivity. To do it, insert the screwdriver into the hole on the unit's back panel, adjust the potentiometer. When you adjust the potentiometer clockwise, the sensitivity will increase, keep adjusting the potentiometer clockwise until the instrument gives alarm of sound, then adjust the potentiometer a little anticlockwise to make the alarm of sound just go off for the highest sensitivity. If you adjust the potentiometer anticlockwise, the sensitivity will decrease.
   Note: When you move the screwdriver close to the unit, the buzzer will sound for a moment, this is normal and doesn't matter.
5. When the instrument is not in use, please switch the power supply off. If you won't use it for a long time, remove the battery from the instrument.

ACCESSORIES:

Battery (9-Volt 6F22): one unit
Manual: a piece
Screwdriver (for sensitivity adjustment): one

NOTE:
Before use, verify the instrument's function with a known sample for proper sensitivity.