

# Installation, Operation and Maintenance Instructions



## **MODEL HH-10 HAND-HELD METALARM™ METAL DETECTOR**

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WORLD AUTHORITY IN ADVANCED TECHNOLOGY FOR MAGNETIC, VIBRATORY and INSPECTION APPLICATIONS

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# Introduction

This manual details the proper steps for installing the Eriez Model HH-10 Hand-held Metalarm™ Metal Detector.

Careful attention to these Installation Requirements will assure the most efficient and dependable performance of this equipment.

If there are any questions or comments about the manual, please call the factory at 814/835-6000 for metal detector assistance.



## **CAUTION**

**Safety labels must be affixed to this product.  
Should the safety label(s) be damaged, dislodged  
or removed, contact Eriez for replacement.**

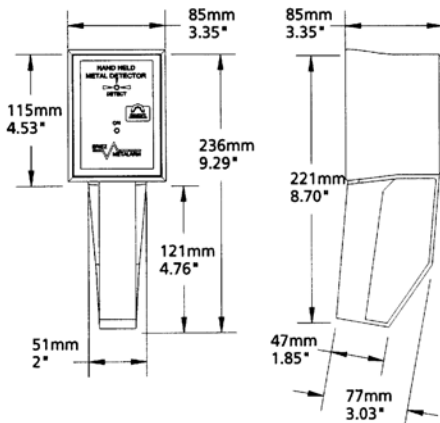
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# General

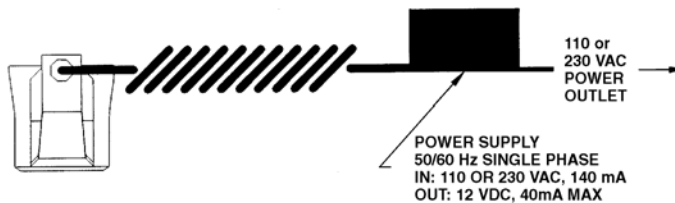
The Eriez Model HH-10 Hand-held Metalarm Metal Detector is a portable device designed to detect small pieces of metal in a wide range of products. It is particularly valuable in a situation where a stationary metal detector, with high sensitivity in a shallow field, is used to scan a large or wide product flow such as sheet goods or textiles, and where the stationary detector can localize metal pieces only within a fairly broad area. The hand-held detector can then be used to isolate the detected metal contaminants precisely within the area identified by the fixed detector.

# Installation

The detector should be used and stored only in a dry environment with an ambient temperature between 0°C and 50°C (32°F and 122°F). When applicable, prepare a non-metallic surface onto which the product to be scanned can be placed for checking.



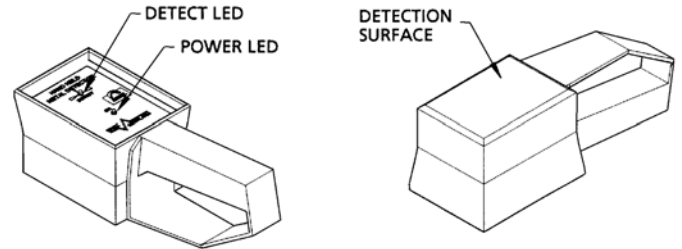
Plug the power supply into the nearest 110 or 230 VAC power outlet. Note that the metal detector does not incorporate an ON/OFF switch. It is energized as soon as the power supply is plugged in. If you want to leave the detector plugged in but turned off, the power outlet itself must be switched.



# Operation

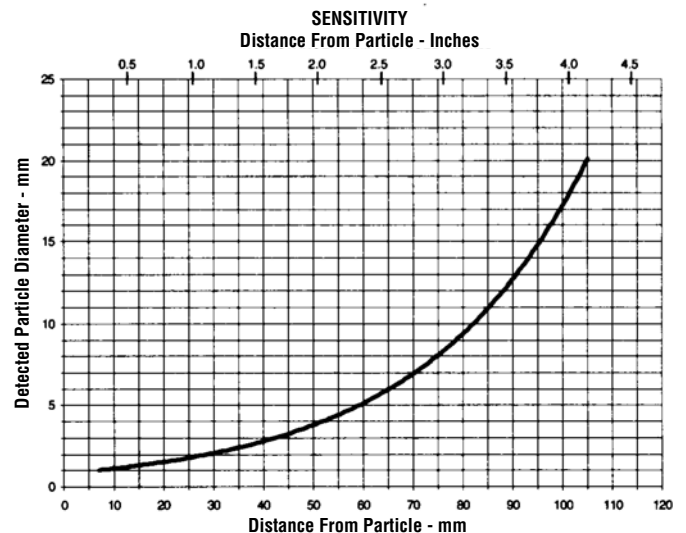
The detector will “beep” and the green “ON” LED will illuminate when power is supplied.

Check for proper operation by passing a metal test piece over the base of the detector. When the test piece is detected the red “DETECT” LED should illuminate and an audible alarm should sound. The detector is now ready for use.



The sensing area of the detector is located in the base of the unit directly below the DETECT LED. You can determine the effective size of the detection area for your set of circumstances by turning the detector on and checking on the base (flat) side of the unit for the area of response.

To detect small metal objects, hold the detector base as close as possible to the object being scanned. For very large objects you can hold the base as far as 90-100mm (3.5"- 4.0") from the object metal. The detector will not sense metal, even very large pieces, at distances greater than about 100mm (4"). We recommend that you conduct trials to determine the most effective way of scanning your particular product to be certain of detecting your typical metal contamination.



## Operation *(cont.)*

Note that when a large metal signal is received by the detector it may “lock up” for a short period of time. That is, the alarm signal may not switch off immediately when the detector is moved away from the metal. This is normal behavior, and the detector will quickly reset itself.

The detector may be left ON continuously if desired. However, the unit activates an auto-zero procedure each time it is plugged in, and therefore it is preferable to unplug it when the unit will not be needed for a long period.

## Maintenance

The HH-10 requires no maintenance or calibration. However, it should be handled and stored as precision electronic equipment. Do not attempt to gain access to the interior of the unit as this will invalidate the warranty. Do not immerse or expose the HH-10 to direct water spray.

For further assistance, please contact Eriez.



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