

# MSDW

## WALL-MOUNTED FERROMAGNETIC DETECTOR FOR THE SAFETY OF PEOPLE AND SYSTEMS IN MRI FACILITIES



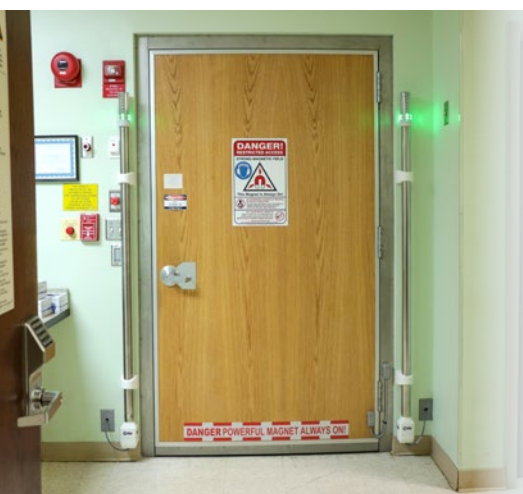
- **PREVENTIVE DETECTION OF FERROMAGNETIC and MAGNETIZED OBJECTS** which can cause a “projectile effect” in the MRI room
- Accurate localization with **MULTI-ZONE ACOUSTIC AND OPTICAL ALARM SIGNALLING**
- **EXTREMELY DURABLE DESIGN** including stainless steel and high impact reinforced plastics
- **IT CAN OPERATE IN ANY LOCATION** in **ZONE I, II or III**
- **UP TO 70,000 EVENTS** can be recorded locally (**FIFO LOGGER**) with traceability of the alarms, programming modifications and diagnostics
- **PROGRAMMING** of operational parameters and **DOWNLOADING OF DATA LOGGER** by smartphone, tablet or portable PC
- Powered through PoE Ethernet or with AC/DC external adapter
- Large number of CEIA MSD ferromagnetic detectors installed

DETECTION  
OVER ENTIRE  
HEIGHT OF  
PERSON

ADVANCED  
TECHNOLOGY  
COMPACT  
DESIGN

EXTREMELY  
DURABLE AND  
RELIABLE

- **HIGH AND UNIFORM SENSITIVITY TO FERROMAGNETIC ITEMS**



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MRI SAFETY THROUGH ELECTROMAGNETICS





## MSDW SPECIFICATIONS

### CONTROLS AND INDICATORS

Programming of operational parameters and downloading of data logger by smartphone, tablet or portable PC

**SECURITY:** Password protected programming at User and Supervisor level

#### MULTI-COLOR STATUS AND ALARM WARNING LIGHT

- GREEN LIGHT** • Normal operation, no alarm
- YELLOW LIGHT** • Detection of ferromagnetic object below alarm threshold
- RED LIGHT** • Detection of ferromagnetic object above alarm threshold:
  - Full height alarm indication
  - Indication proportional to signal intensity
  - Alarm indication with 5 different localization zones
  - Full height alarm indication, followed by zonal signalling
- BLINKING LIGHT:** diagnostics alarm
- BLUE LIGHT** • Connecting BT device in progress

#### ALARM SOUNDER

- Alarm indication for target over the alarm threshold:
  - Fixed tone
  - Tone proportional to signal intensity
  - Single pulse for pinpointing target
- Alarm tone can be selected, continuous and intermittent
- Self-diagnostics signal: intermittent tone

#### BLUETOOTH HEADSET (ACCESSORY)

- Copies all acoustic indications, with the addition of checking Bluetooth connection

### POWER SUPPLY

Via Ethernet port, PoE Class 0 compliant to IEEE 802.3af/IEEE 802.3at Type 1

Via connecting cable to external 24Vdc supply

Via external AC/DC power adapter [ACCESSORY]

### INPUT/OUTPUT

LAN port, Ethernet port, PoE Class 0 compliant to IEEE 802.3af/IEEE 802.3at Type 1

IN/DUT port, General purpose connector, Type: 8-pole M12 male. It supports the following connections:

- Power supply input, Voltage: 24Vdc  $\pm 10\%$ , 0.25A max
- RS-232 serial communication lines
- Relay output, activated in case of alarm or diagnosis alert. Selectable in normally open or normally closed operation. Rating: 0.4A max, 30Vdc.
- Inhibition input, Galvanically isolated 2-pole connection. Rating: + 5 = 12 Vdc.

### ENVIRONMENTAL CONDITIONS

Working temperature: -10°C to +65°C

Storage temperature: -37°C to +70°C

Relative humidity: 0 to 95%, non-condensing

### DETECTOR WEIGHT

3,5 Kg

### DIMENSIONS

90 mm x 73 mm x 1820 mm (WxDxH)

### SHIPPING INFORMATION

Dimensions: 200 mm x 160 mm x 2170 mm (WxDxH)

Weight: 10 Kg

### DETECTOR DEGREE OF PROTECTION

For indoor and outdoor use

### AVAILABLE ACCESSORIES

**BT audio function activation, headset and charger** code 88919

**External AC/DC adapter** code 117021



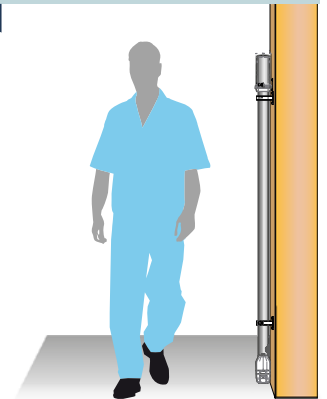
#### App CEIA FMD

The application allows monitoring of the device, adjustment of the settings and downloading of data logger. Available on Google Play Store.  
REQUIREMENTS: Android 7.0 or later, BT interface available

#### MSDX Distribution Box

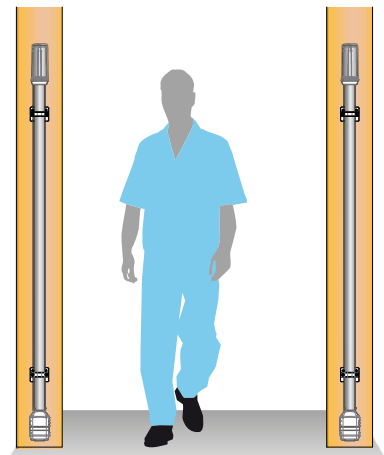
Accessory to be used for the installation of CEIA MSDW devices, designed to simplify the connections between detectors and external devices. It allows the connection of a single detector (Chain Head) or both (Chain Head and Chain Tail), in order to have a single power supply source. code 117022

### STANDALONE CONFIGURATION



### PASS-BY OPERATION

### PASS-THROUGH CONFIGURATION



### COMPLIANCE

- Safe for use for pacemakers and other medical implants
- Compliant with the applicable electromagnetic Standards on Human Exposure and pacemaker safety
- Compliant with and certified to the applicable International Standards for electrical safety and EMC



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