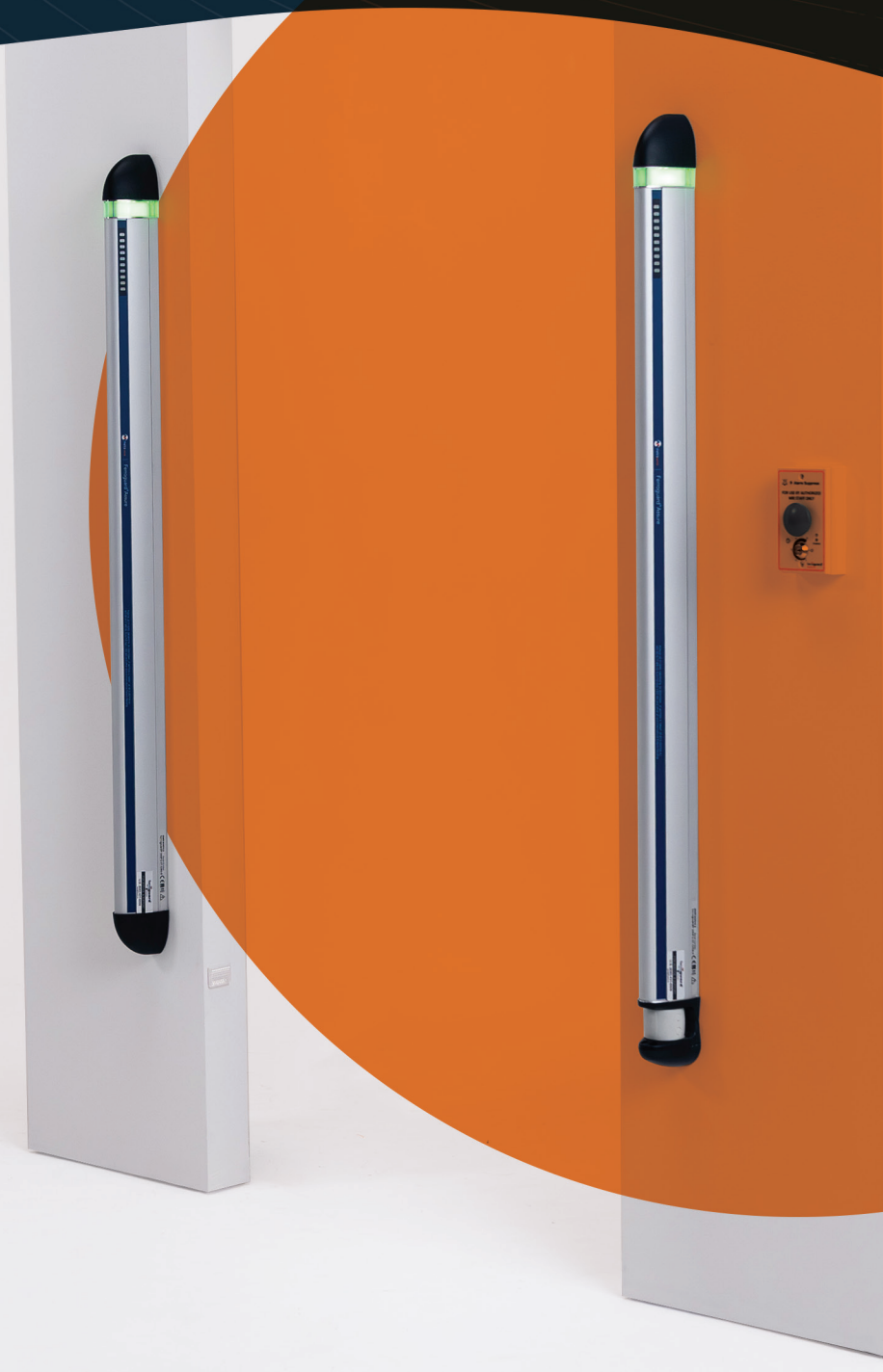
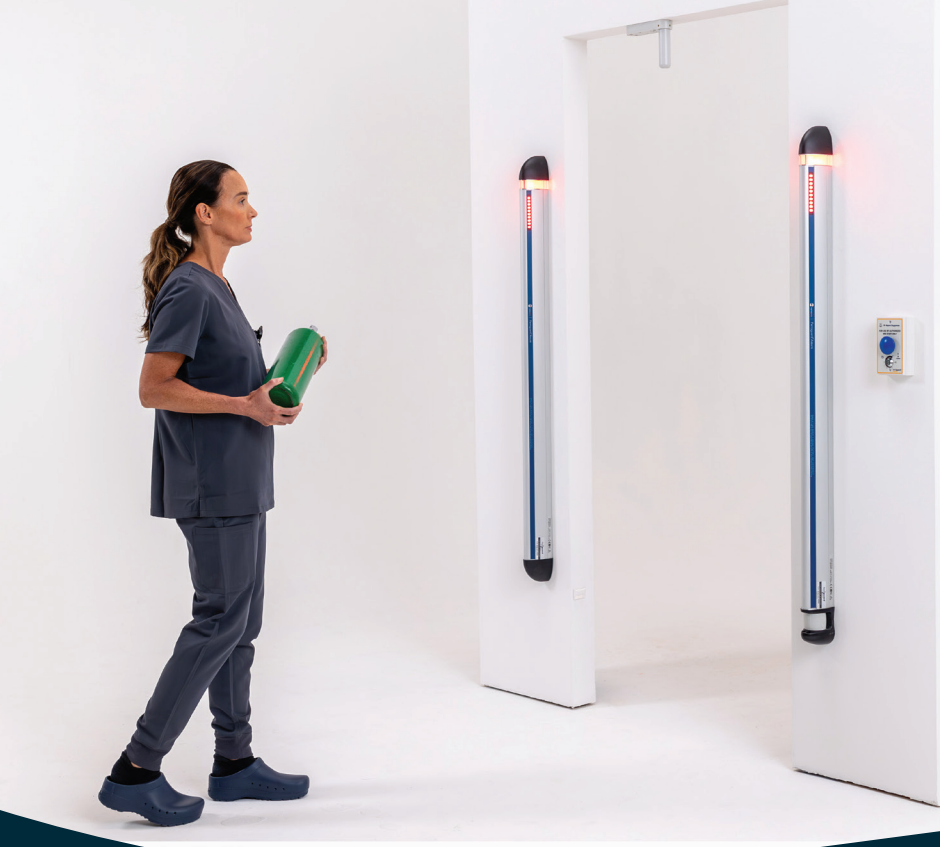
metrasens

ZONE IV ENTRY CONTROL SYSTEM

Take Control of MRI Projectile Safety



FERROGUARD ASSURE



The most trustworthy ferromagnetic detection system for MRI Zone IV protection

Despite careful and guideline-compliant screening procedures, adverse events and projectile incidents are on the rise and present a significant risk within MRI facilities.

Ferroguard Assure enhances the safety of your patients and staff and prevents costly damage to your magnet by eliminating the risk of projectile incidents. With Ferroguard Assure, keep ferrous objects from entering Zone IV before it's too late.

Enhanced MRI safety

Achieve and exceed MRI safety best practices with Zone IV protection to prevent ferrous objects from entering the magnet room.

Trustworthy, always-on detection

Early warnings signal dangerous risk items moving towards the magnet room, eliminating detection gaps and giving you time to react.

Reduce alarm fatigue

Ferroguard Assure's Smart Alarm™ is designed to manage alarm triggers from magnet doors themselves or upon exiting the magnet room—reducing extraneous audible alerts.

Designed for success

Clean, simple alerts

Intuitive, eye-level alerts and a visual early warning mechanism provide advanced visual notice.

Smart audible-alert reduction

Avoid alarm triggers from doors or upon exiting the magnet room. And our optional Alert Management Unit (AMU) allows management to suspend audible alerts for a fixed amount of time.

Flexible applications

Assure can be installed on nearly all door configurations, accommodating both in-swing and out-swing doors and intra-operative sliding doors.

Monitoring & data analytics

Ferroguard Assure's MRI-Safety-Manager™* provides real-time oversight of magnet room door status, ferromagnetic activity, and Zone IV entries. It also provides door status for control rooms without direct line-of-sight to the magnet room door.

Video integration

Capture and report on adverse incidents with HD continuous video option for incident root cause analysis, integrated and triggered by Ferroguard Assure alerts.

Set up for success

Expert-level installation and training from industry experts with deep knowledge of ferromagnetic detection and best practices for successful implementation.

Data-driven MRI safety management

Ferroguard Assure's reporting tool, MRI-Safety-Manager (MRISM)*, allows safety compliance review and improvement.

We partner with you to put MRI safety first

- Hands-on training
- Process that works for you
- Intuitive implementation

*MRI-Safety-Manager (MRISM) is only available in the US.

Specifications

AVAILABLE IN:

PHYSICAL SPECIFICATIONS				
PART	**WEIGHT**	**HEIGHT**	**WIDTH**	**DEPTH**
Sensor Units (each)	9.8lb (4.5kg)	53.9″ (137cm)	3.1″ (8cm)	3.5″ (9cm)
Hub Unit	13.0lb (5.9kg)	13″ (33cm)	15″ (38cm)	3″ (7.6cm)
Door Sensor	0.5lb (225g)	3-11″ variable (7.6 – 28cm)	7″ (18cm)	1.75″ (4.5cm)
Door Vane	23oz (649g)	6″ (15cm)	16″ (40cm)	3.5″ (9cm)
Retro-Reflector	0.4oz (10g)	1.5″ (3.8cm)	2″ (5cm)	¼″ (0.64cm)

OPERATING CHARACTERISTICS	
Range	Recommended maximum sensor unit separation is 6′ (1.8m)
Display Response	Response time for Beacon display <0.1s. Average Display Reset Time <0.3ms. Magnitude display is indication only for purposes of alerting staff.
Audible alarm response time	<1ms from optical beam break

CONTROLS	
PART	**CONTROLS**
Sensor Units	Sensitivity for visual warning and audible alarm. Volume of audible alarm.
Hub Unit	Software based via USB to laptop. Multiple parameters. System Reset switch.

POWER SUPPLY	
Voltage Input	100-240 VAC, 47-63Hz
Current Draw	1A Max

COMPLIANCE
CE and **ETL** Marked.

Ferroguard Assure is in accordance with the following Directives

- **2014/30/EU** Conforms with the essential protection requirements of the Electromagnetic Compatibility Directive and its amending directives
- **2014/35/EU** Conforms with the safety objectives of the Low Voltage Directive and its amending directives
- **2011/65/EU** Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Metrasens Ferroguard Assure has been designed and manufactured to the following standards;

- **EN 61326-1:2013** Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
- **EN 61010-1:2010** Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements

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