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# SPECIFICATION - STANDARD SERIES DETECTORS

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## Basic Technology

High frequency low power electromagnetic coil system.

## Frequency of Operation

Crystal controlled in the range 10khz to 500khz staggered frequency versions available.

## Input Power

Voltage 85V to 265V, Current 1.5 amps max  
Frequency 47 to 440 hz

## Temperature Range

Operating -10C to +45C  
Storage -10C to +45C

## Warm Up Time

One minute at temp of 20C

## Balancing

Automatic - fast switch on (30 secs)  
Range - 10 years normal conditions

## Battery Back Up

Cell life - 5 years  
Discharge time - 6 months from power off

## Product Speed

0.04 to 2.5 metres/minute /m.m. of aperture height.

(3 to 200 feet / minute / inch of aperture height.)

Selectable high and low from software, low - x 1,  
high - x 10

Lower speeds available on request

## Relay Output

Two sets volt free change over contacts  
Rating 5 amps at 250 volts non-inductive

## Alarm Timers

See timer section in manual.

## Spherical Sensitivity

Dependent on aperture size, all sensitivity information is expressed in diameters of spherical samples.

Non spherical objects such as wires will exhibit an orientation effect, ie they can be more easily detected in certain axis if the diameter of the wire is less than the spherical sensitivity setting the sample may not be detected in all orientations.

## Sensitivity Ratios

Dependent on frequency of coil system e.g. at 300 Khz

Non Ferrous x 1.1 Fe dia

Stainless Steel type A x 1.2 Fe dia.

Stainless Steel type B x 1.3 Fe dia.

Stainless Steel type C x 1.5 Fe dia.

## Sensitivity Gradient

Less than two diameters.

This is the difference in sensitivity measured at the centre of the aperture and the sensitivity at any other point in the aperture not closer than 10mm to the surface.

## Environmental Protection

Painted Version - IP66, NEMA 4.

Stainless Steel Version - IP66, NEMA 4X.

For more hostile environments a protective cover is available for the control panel.