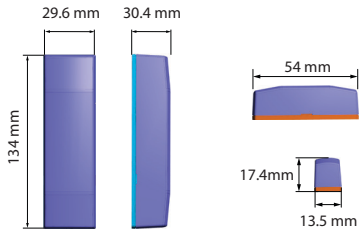
RF112 - SMART RF Wireless Contact /Shock Sensor / Analyser



Installation Reference Guide
Rev1.5



0-93% Relative Humidity
Non-condensing

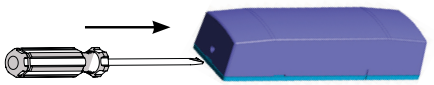
Functional range: -10°C to +49°C
EN5013-5 Class II Only: -10°C to +40°C

Panasonic CR123A Lithium
Duracell DL123A
3.0 VDC

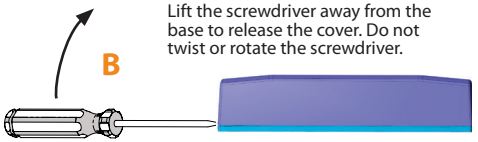
For Further Information See Your Control Panel Installation Manual

433.42 Mhz

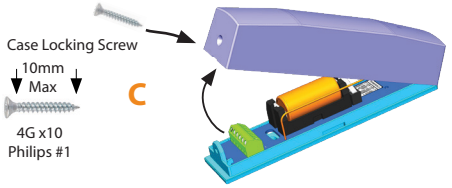
1 Opening The Housing



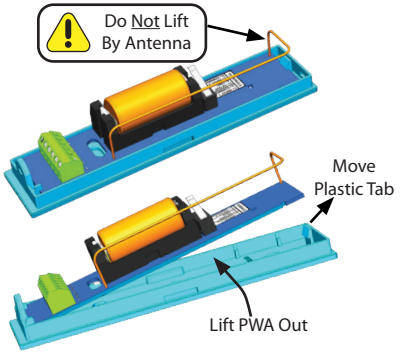
Push the screwdriver blade 3mm into the slot shown.
Do Not twist the blade!



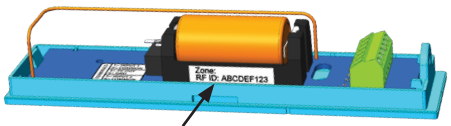
Lift the screwdriver away from the base to release the cover. Do not twist or rotate the screwdriver.



2 Removing The PWA



3 RF ID



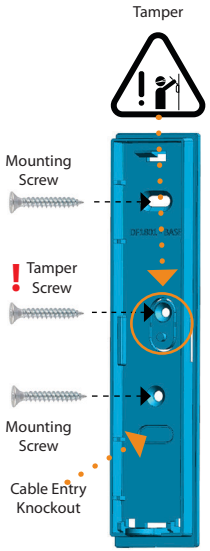
RF ID is located on the side of the battery holder.

The RF112 Ships With The Following Items

- RF112 Printed Wiring Assembly
- RF112 Housing Including Cover And Mounting Plate
- Double Sided Adhesive Tape To Suit Above Housing
- Magnet Housing Including Cover And Mounting Plate
- Double Sided Adhesive Tape To Suit Above Housing
- Neodymium Magnet
- CR123A Lithium Battery
- 5 x Mounting Screws and 1 x Case Lock Screw
- RF112IRG Installer Reference Guide

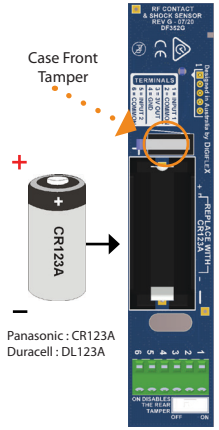
Ensure that the transmitter is protected from weather elements such as extreme temperatures, humidity, rain or snow.

4 Mounting

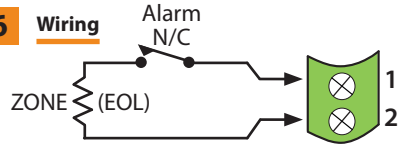


5 Battery Installation

TERMINALS	
	1= INPUT 1
	2= COMMON
	3= 3V OUT
	4= GND
	5= INPUT 2
	6= COMMON

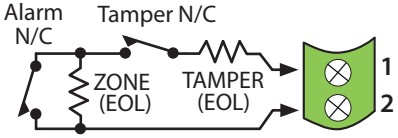


6 Wiring



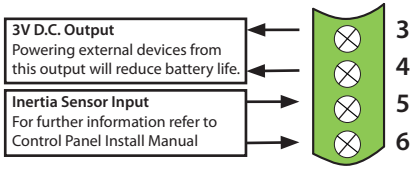
Single EOL

End Of Line Resistor (EOL)
For further information refer to Control Panel EOL Selection



EOL Alarm+Tamper

Contact Wiring Distance = 8m MAX
All other external peripherals = 1m MAX



7 Using Adhesive Mounting

The RF112 is supplied with a double sided tape mounting option. Use this mounting method to speed installation where appropriate.
Follow the guidelines below for best results.
1) Do not use on rough or uneven surfaces.
2) Clean both surfaces using isopropyl alcohol wipes before installing tape.
3) Test zone function to ensure correct placement before removing backing tape.
4) Apply firm pressure to the device for 30 seconds after placement to ensure the adhesive activates. (The adhesive is pressure activated)

8 LED Indicator

6 Slow Flashes	**Device Powered Up**
4 Fast Flashes	**Device Has been Configured**
Continuous Flash	**Device TX or RX**
Single Pulse	**Device Input Triggered**

When panel is in service mode and device Tamper is triggered, the LED will activate for up to 15 minutes to assist with device placement and configuration. During normal operation the LED is off to extend battery life.

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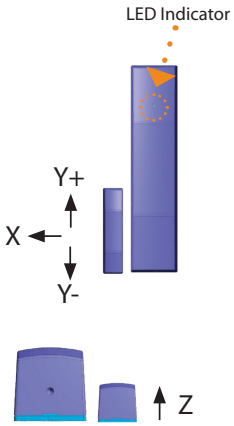
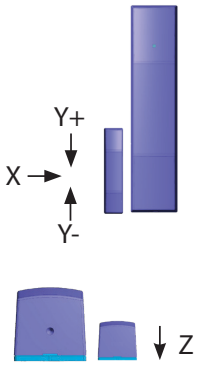
Our Vision Is Your Peace Of Mind

9 Magnet Placement Guide -Side Reed

Using Side Reed SW			
	N/C to Alarm	Metal Surface	Timber Surface
Magnet In High Position	X	11.5mm	24mm
	Y	+14 mm, -11mm	+16mm, -13mm
	Z	21mm	28mm
Magnet In Low Position	X	7.5mm	23.5mm
	Y	+12mm, -10mm	+15mm, -13mm
	Z	27mm	36mm

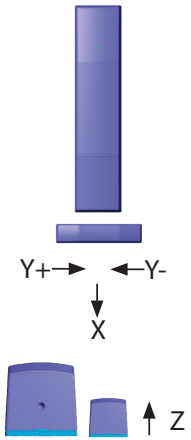


Using Side Reed SW			
	Alarm to N/C	Metal Surface	Timber Surface
Magnet In High Position	X	11mm	23mm
	Y	+14mm to -11mm	+16mm to -12mm
	Z	20mm	27mm
Magnet In Low Position	X	7mm	23mm
	Y	+12mm to -10mm	+15mm to -13mm
	Z	26mm	35mm

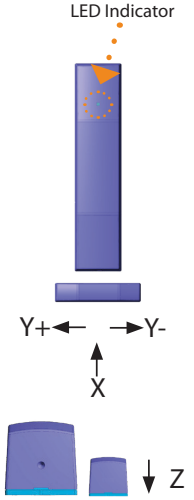


10 Magnet Placement Guide -End Reed

Using End Reed SW			
	N/C to Alarm	Metal Surface	Timber Surface
Magnet In High Position	X	-8mm	-22mm
	Y	+11 mm, -11mm	+15mm, -14mm
	Z	18.5mm	26.5mm
Magnet In Low Position	X	-4.5mm	-22mm
	Y	+8.5mm, -9.5mm	+15mm, -14mm
	Z	24.5mm	35.5mm

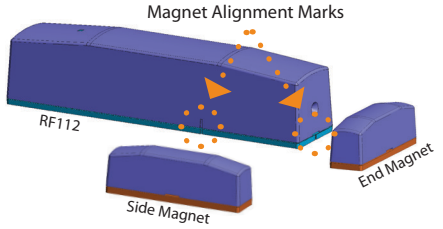


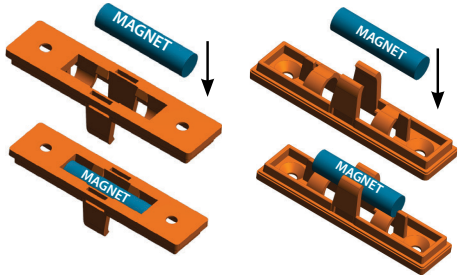
Using End Reed SW			
	Alarm to N/C	Metal Surface	Timber Surface
Magnet In High Position	X	8mm	21mm
	Y	+11 mm to -11mm	+15mm to -14mm
	Z	18mm	26mm
Magnet In Low Position	X	4mm	21mm
	Y	+8mm to -9mm	+15mm to -14mm
	Z	24mm	35mm



11 Magnet Installation

For best performance install the magnet as close as possible to the RF112, and align the centre of the magnet with the alignment mark on the RF112 housing. Use the tables in section 9 and 10 as a guide to placement performance in your installation.






Low Magnet Position


High Magnet Position

RF112 Device Specifications

Parameter	Value
Input Types Supported	Single EOL, Alarm+Tamper, Dry Contact or Pulse Counting (Clicker input)
Operating Temp	-10°C to +49°C
Humidity	0% - 93% Non-condensing
Battery	3V CR123A Lithium
Battery Life	Up to 2 years
Frequency	433.42MHz
RF Modulation	FSK
Data Rate	25kbps
Data Encoding	Manchester
Approvals	RCM (ANZ), CE (Europe)