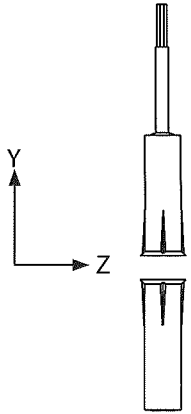
Approximate Operating Distances(mm) on a Non-ferrous Surface

Mounting on a ferrous surface will reduce the operating gaps



Z	Min Close	15mm
	Max Open	30mm
Y	Min Close	15mm
	Max Open	30mm

Specification			
Reed Switch		Housing	
Temperature	-10°C - +40°C	Material:	HIPs
Voltage Rating:	<50vDC	Contact dimension:	9.5mmØ x 31.5mm
Current rating:	0.5A DC & AC	Contact head:	11.5mmØ
Contact resistance:	100 Mohms	Magnet dimension:	9.5mmØ x 34.25mm
Contact material:	Palladium	Magnet head:	11.5mmØ
		Metal door adaptor:	25mmØ x 19mm
		Metal door adaptor head:	31mmØ

CE UK CA

CQR Security Ltd, 125 Pasture Road, Moreton, Merseyside, CH46 4TH.
United Kingdom

Version 7: 310524

CQR™

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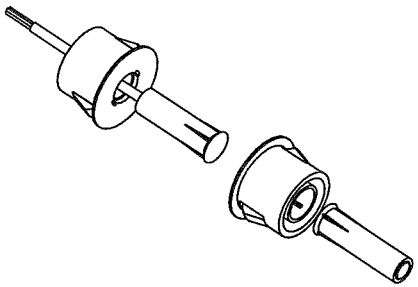
FC620/WH

Security Grade 2
Environmental class II



This flush mounted magnetic door contact can be used in most security systems up to and including grade 2 as specified in EN50131-1: 2006 +A3:2020 and is compliant to EN50131-2-6:2008 and environmental class II (for use indoors). It operates as a normally closed circuit going open when the magnet is removed. This contact can be used on most doors to detect the unauthorised entry of an intruder.

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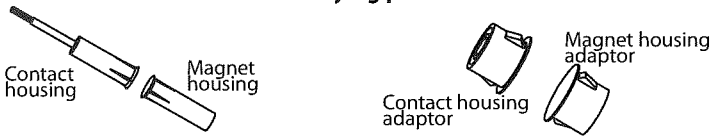
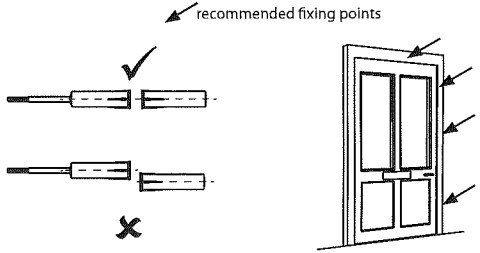
Identifying parts

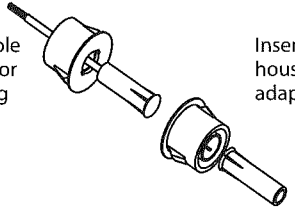


Mounting Configuration



Assembly of adaptor

Feed the cable though the hole in the contact housing adaptor and push the contact housing firmly into position



Insert the magnet housing into the adaptor as shown

Installation

Wooden Doors.

To install the contact housing, drill a 10mm hole into the door frame to a minimum depth of 32mm on the opening side of the door. Drill a suitable hole to allow for cable entry and feed the cable through it. Insert the unit into the prepared hole by tapping with a rubber mallet or using a nylon hammer to protect the contact. To fit the magnet, carefully mark the position on the door from the already fitted contact to ensure that the centre of the magnet is aligned with the centre of the contact. Drill a 10mm hole to a minimum depth of 35mm into the door. Tap the magnet housing into the hole using a rubber mallet or nylon hammer.

Metal Doors.

To install the contact housing adaptor in a fabricated metal door frame of up to 3mm thick, use a 25mm hole saw to drill the hole through both the frame and the door ensuring correct alignment as shown opposite. Remove sharp edges from around the drilled holes prior to fitting the units. Assemble the units into the prepared holes as shown opposite

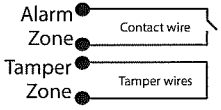
Wiring connections

This door contact is double pole only and is not suitable for end of line monitoring.
The switch is normally closed when the magnet is present and changes state to normally open when the magnet is removed.

After the cutting the cable to a suitable length for termination into a junction box, strip back the outer sheathing of the cable to reveal the four white wires. Strip each wire in turn to the required length.
Using a multimeter set to continuity or ohms, by a process of elimination discover the two wires that show continuity. These two are the tamper loop. The remaining two are the switch that will be connected to the zone in the control panel.
Note:
The magnet should not be near the contact when identifying the tamper pair as the switch pair will also be closed

Terminate the wires into a suitably placed junction box. We recommend the use of a CQR JB707/WH for this application.

Single door



Multiple doors