

ELMDENE

Protecting People & Property

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HDBR High Security Contact

FEATURES

The HDBR is a high security surface mounting magnetic contact with a passive tamper circuit designed for non-ferrous applications, however with the use of spacers the unit can also be used on ferrous surfaces. The contact is fully encapsulated and potted providing protection from the ingress of moisture; a cable tail with stainless steel protection is provided for connection. The contact and magnet housings are both aluminium.

Supplied as a matched pair, correct orientation of magnet and contact is required for operation.

This product is designed to meet the requirements of EN50131-2-6:2008 **Grade 2** and Environmental **Class III**. Suitable for use in systems designed to comply with PD6662:2017

INSTALLATION

This 'HIGH SECURITY' sensor and magnet is supplied as a matched pair and must be used with the magnet supplied. The magnet must be positioned with the plug (a – see below) on the same side as the conduit exit from the contact and with the fixings to the back. It will not work the other way round due to biasing of the sensor reed.

If fitted to ferrous metal, the sensitivity may be affected and a spacer(s) should always be fitted under the contact and magnet. Mount the switch/magnet assembly to have an air gap of minimum 3mm and not greater than 5mm (b – see below). Although it will work with a greater gap, optimum balance is set to be achieved at 5mm.

The introduction of any 'illegal' magnetic field will interrupt the operating circuit.

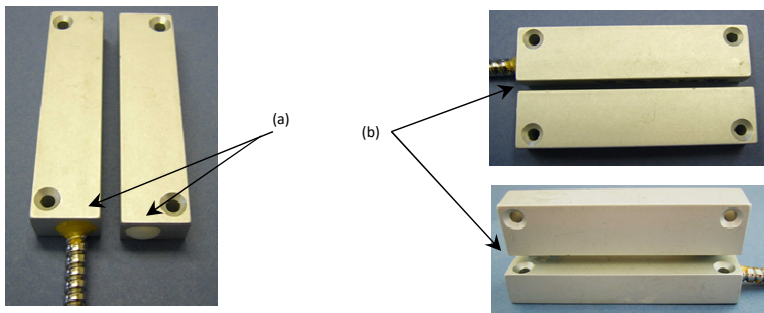
SPECIFICATION

EN50131-2-6 Grade	2	Current Rating (Switch)	1A
Env. Class / IP rating	III / IP67	Current Rating (Carry)	1.5A
Reeds	3	Closing Gap (Minimum)	10mm
Reeds (Biased)	1	Opening Gap (Maximum)	35mm
Tamper	Passive	Contact/Magnet Dimensions (mm)	80(L) x 19(W) x 12.5(D)
Voltage Rating	100V dc	Temperature Range	-40°C to +70°C
Power Rating	10VA		

CONNECTION

4 Wire Model: 4 White wires, reed switch pair are stripped, the tamper pair is un-stripped.

6 Wire Model: See 6 Wire Configuration Instructions.



DETECTEUR D'OUVERTURE 4HDBR HAUTE SECURITE

IMPORTANT

- Le contact et l'aimant du 4HDBR sont fournis par paire et ne doivent pas être dissociés.
- Pour éviter un mauvais fonctionnement, prendre garde de ne pas les séparer.
- Ne pas faire fonctionner le contact avec un autre aimant.
- Ne pas séparer l'aimant ou le contact de l'équerre de fixation.

SENS DE CABLAGE

1. L'obturateur plastique de l'aimant doit être positionné à côté de la sortie du câble de contact. Ce dernier possède des aimants internes de polarisation et ne peut fonctionner dans l'autre sens.
2. L'entrefer (espace entre le contact et l'aimant) maximum au repos doit être inférieur ou égal à 5mm.

Bien que le 4HDBR fonctionne avec un espacement supérieur, l'autoprotection au fraudage magnétique n'est opérationnelle que si le 4HDBR est installé avec l'entrefer correct.

- Raccordement par 4 fils blancs.
 - 2 fils d'autoprotection non dénudés.
 - 2 fils d'alarme dénudés.

6-WIRE CONFIGURATION

IMPORTANT

Do not shorten cable before reading the following paragraph.

The contact wires have been colour coded using coloured sleeves. The core wires are not coloured inside the sheath. To shorten the overall cable length, strip the sheath using the rip cord and slide the sleeves down to the required length. Then cut the cable to the required length – ensuring the coloured sleeves remain on the core wires.

The six wires are: 2 x white, 1 x red, 1 x yellow, 1 x blue & 1 x black.

CONNECTION

The Contact can be used in the following formats:

- Standard double pole – Single and double leaf doors - Figures 1 & 2
- Fully Supervised Loop – Single leaf doors – Series connection - Figure 3
- Fully Supervised Loop – Double leaf doors – Series connection - Figure 4
- Fully Supervised Loop – Single leaf doors – Parallel connection - Figure 5
- Fully Supervised Loop – Double leaf doors – Parallel connection - Figure 6

See overleaf for diagrams:

Figure 1 - Standard Double Pole Wiring (No Resistors) – Single Leaf Door

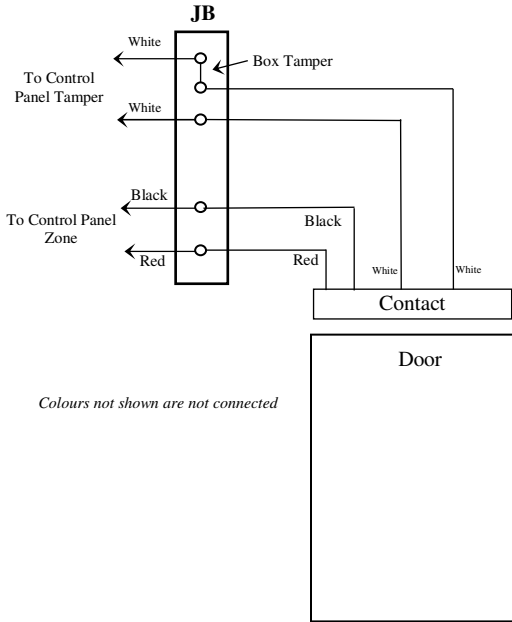


Figure 2 – Standard Double Pole Wiring (No Resistors) – Double Leaf Door

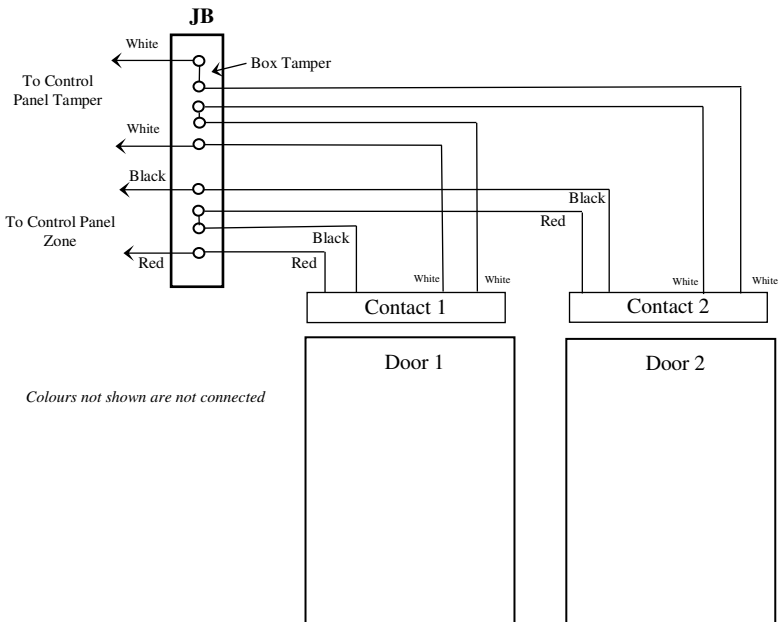


Figure 3 – Contact Resistors + End of Line Resistor (Series) – Single Leaf Door

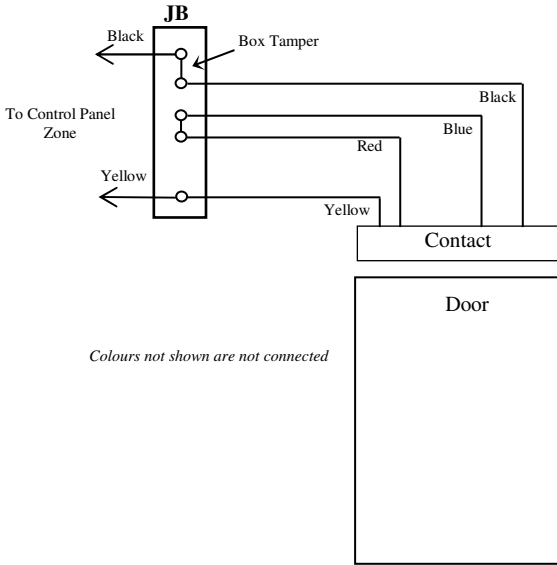


Figure 4 – Contact Resistors + End of Line Resistor (Series) – Double Leaf Door

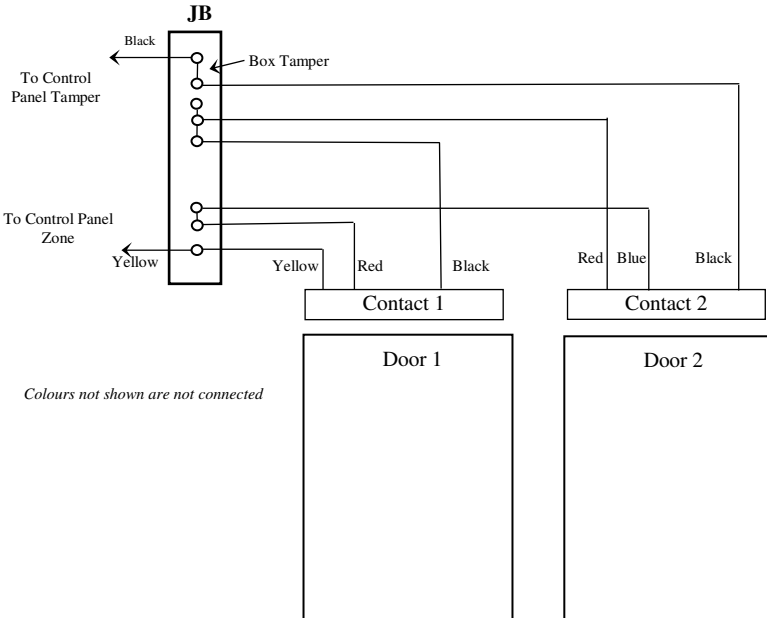


Figure 5 – Contact Resistor + End of Line Resistor (Parallel) – Single Leaf Door

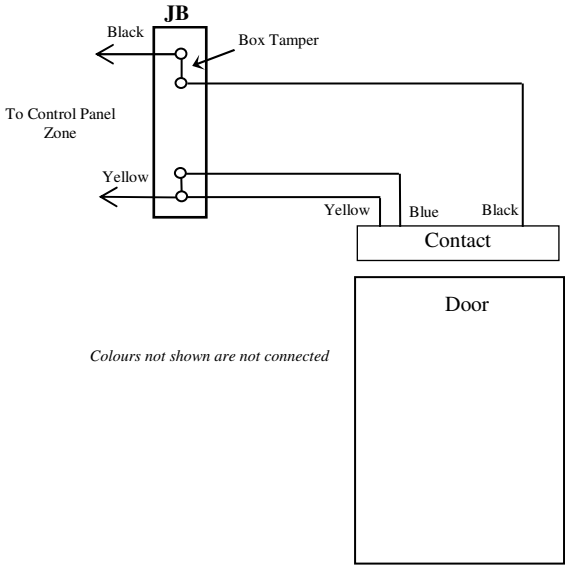
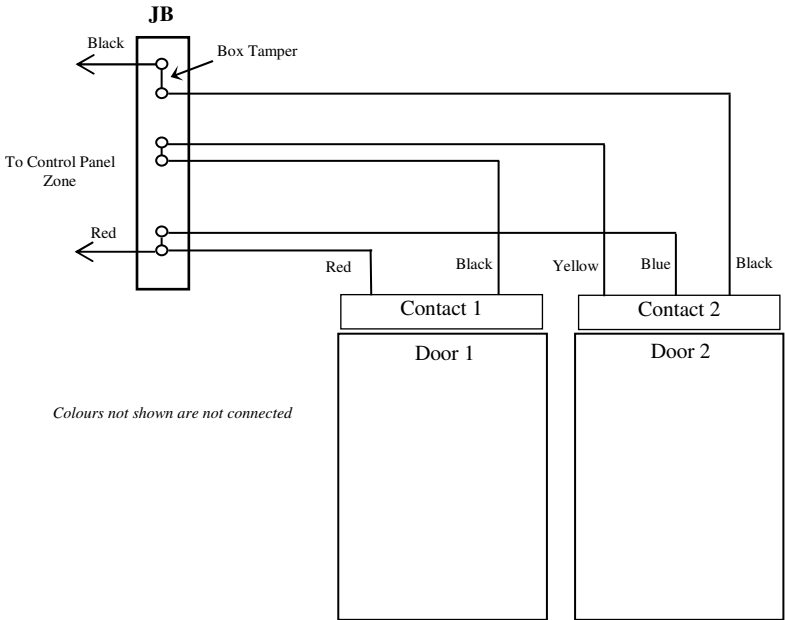


Figure 6 – Contact Resistor + End of Line Resistor (Parallel) – Double Leaf Door



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