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4 / 6HD range Surface Magnetic Contact

FEATURES

The 4HD and 6HD range of 4 and 6 wire contacts are heavy duty aluminium surface mounting contacts for use in commercial/industrial installations. They feature a fully encapsulated aluminium body, potted cable tail and long-life rhodium contacts.

COMPLIANCE

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**.

Additional certification: **INCERT** (only for models 4HD-60-IN / 4HD-60-SO[†]-IN / 4HD-300-GN-IN / 6HD-60-IN). (60 & 300 refer to combined cable and magnet lengths in cm. [†] -SO refers to 'Stand-Off' mounting / flanges)

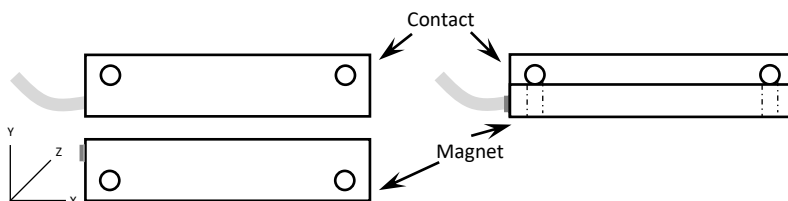
END OF LINE RESISTOR - COLOUR CODE (APPLIES TO 6HD ONLY)

Where applicable (indicated by two letter colour code), the Contact has one pair of End of Line resistors, the values of which are identified by the colour of a sticker on the Contact body and the colour of the label on the bag in which the Contact was supplied. The product code on the product sticker and bag label includes two letters which also indicates the colour code of the Contact and therefore the value of the two internal resistors; see table below:

Colour of Contact Sticker & Bag Label	Two Letter Colour Code	Value of Internal Resistors	Suitable Control Panels
Red	RD	4k7 / 2k2	ADE, Bosch, Castle, Menvier, Pyronix, Scantronic, Texecom
Green	GN	1k / 1k	Honeywell
Blue	BL	8k2 / 8k2	Guardall
Grey	GY	4k7 / 4k7	Aritech, HKC, Siemens
Purple	PU	6k8 / 4k7	GardTec
Yellow	YL	2k2 / 2k2	Europlex
Orange	OR	5k6 / 5k6	DSC
None	None	None	(Not panel specific)

INSTALLATION

The Contact and Magnet should be fitted with a minimum gap between them and ideally no more than about half the total operating gap. See drawings below for typical positioning and orientation. Connect, retaining coloured identification sleeves, where fitted.



CONNECTION

The Contact can be used in the following formats:

- Double pole (No Resistors) – Single and double leaf doors Figures 1 & 2 (4HD & 6HD)
- Fully Supervised Loop – Single and double leaf doors – All panels except Guardall Figures 3 & 4 (6HD only)
- Fully Supervised Loop – Single and double leaf doors – Guardall panels Figures 5 & 6 (6HD only)

IMPORTANT

Do not shorten cable before reading the following paragraph.

The contact wires can be identified as follows:

4HD:

(a) Four solid colours: Black & Red – Contact pair, Yellow & Blue – Tamper pair.

(b alternative) Four white cores: 2 x stripped – Contact pair, 2 x unstripped – Tamper pair.

6HD:

(a) Six solid colours: Black & Red – Contact pair, Yellow & Blue – EOL pair, White & Green – Tamper pair.

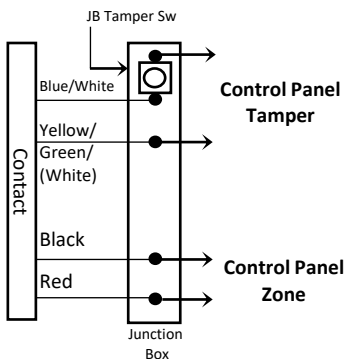
(b alternative) Six white cores:

Contact pair – Black & Red sleeves, EOL pair – Yellow & Blue sleeves, Tamper pair – White sleeves.

To shorten the overall cable length where sleeves are fitted, strip the sheath and slide the sleeves down the wires, then cut the cable to the required length, ensuring the coloured sleeves remain on the core wires.

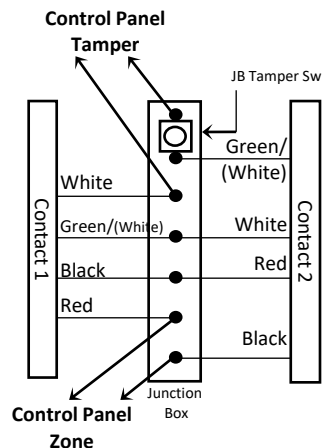
Double Pole Wiring (4HD or 6HD) - No Resistors

Figure 1: Single Leaf Door



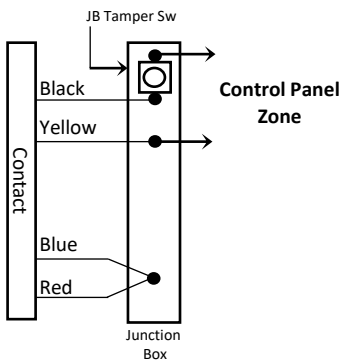
Colours not shown
are not connected

Figure 2: Double Leaf Door



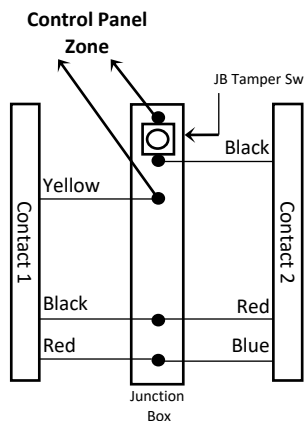
Fully Supervised Loop (6HD only) – All panels except Guardall

Figure 3: Single Leaf Door



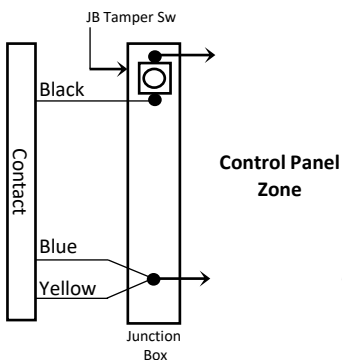
*Colours not shown
are not connected*

Figure 4: Double Leaf Door



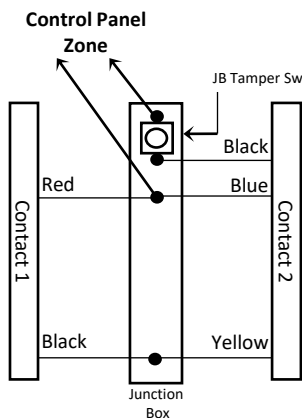
Fully Supervised Loop (6HD only) – Guardall Panels

Figure 5: Single Leaf Door



*Colours not shown
are not connected*

Figure 6: Double Leaf Door



SPECIFICATION

Housing Material	Anodised Aluminium
Cable	4 or 6 core potted
EN50131-2-6 Grade	2
Environmental Class / IP rating	III / IP67
IK Rating	IK07
Voltage Rating	100V dc
Power Rating	10VA
Current Rating (Switch)	1A
Current Rating (Carry)	1.5A
(Non-ferromagnetic material surface)	
Closing Gap (Minimum - X axis)	14mm
Closing Gap (Minimum - Y axis)	24mm
Closing Gap (Minimum - Z axis)	22mm
Opening Gap (Maximum - X axis)	22mm
Opening Gap (Maximum - Y axis)	45mm
Opening Gap (Maximum - Z axis)	44mm
(Ferromagnetic material surface)	
Closing Gap (Minimum - X axis)	12mm
Closing Gap (Minimum - Y axis)	5mm
Closing Gap (Minimum - Z axis)	3mm
Opening Gap (Maximum - X axis)	21mm
Opening Gap (Maximum - Y axis)	19mm
Opening Gap (Maximum - Z axis)	25mm
Contact/Magnet Dimensions (mm)	80(L) x 19(W) x 12.5(D)
Fixing	Contact & Magnet each require 2x screws
Temperature Range	-25°C to +50°C
Humidity	95% RH non-condensing

CERTIFICATION

Certification Body	Kiwa FSS Products, The Netherlands.
Additional Certification	INCERT
Certificate number	C-015-1575

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