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6RSL Roller Shutter Magnetic Contact

FEATURES

The 6RSL is a low profile heavy duty surface mounting contact for use with roller shutter doors. It features a fully encapsulated cast aluminium body, with stainless steel armoured cable sheath 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**.

END OF LINE RESISTOR - COLOUR CODE

Each 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 ends with 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	Last Two Letters of Product 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

INSTALLATION

- 1) Fix magnet securely to bottom of roller shutter door leaving about 5mm gap between magnet face and top of switch.
- 2) Align switch body so that magnet lies within alignment marks when door is in normally closed position.
- 3) Connect switch and tamper wires to circuit using a terminal box with a tampered lid, or solder in-line with each solder connection individually insulated.
- 4) Retain this instruction sheet as part of the system installation documentation.

If fitted to ferrous metal, the sensitivity may be affected and a spacer(s) should always be fitted under the contact and magnet

CONNECTION

The Contact can be used in the following formats:

Double pole (No Resistors) – Single and double leaf doors

Figures 1 & 2

Fully Supervised Loop – Single and double leaf doors – All panels except Guardall

Figures 3 & 4

Fully Supervised Loop – Single and double leaf doors – Guardall panels

Figures 5 & 6

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 and slide the sleeves down the wires, 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.

Double Pole Wiring - No Resistors

Figure 1: Single Leaf Door

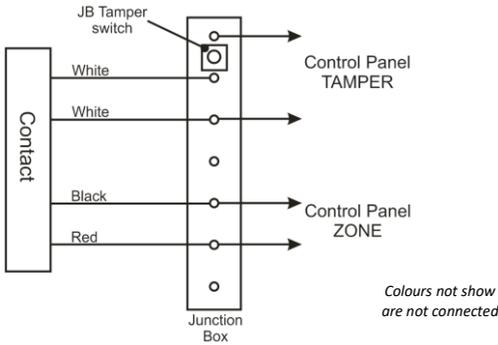
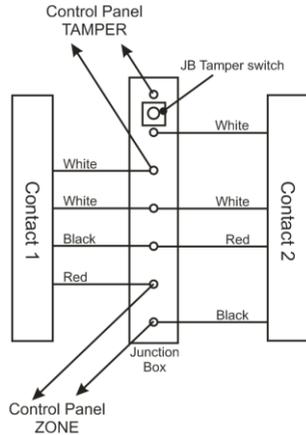


Figure 2: Double Leaf Door



Fully Supervised Loop – All panels except Guardall

Figure 3: Single Leaf Door

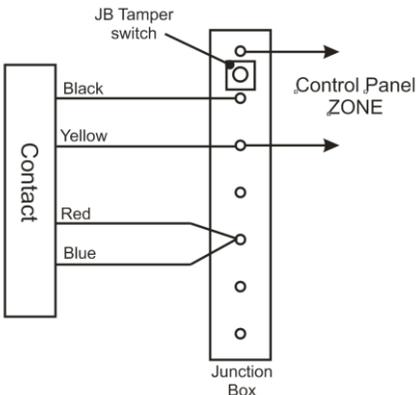
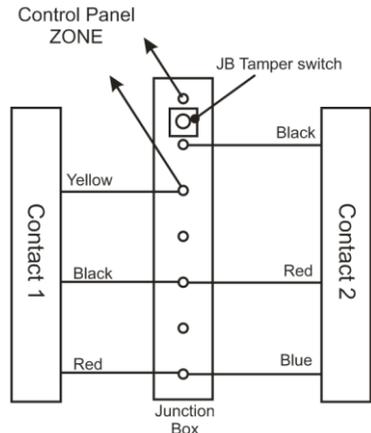


Figure 4: Double Leaf Door



Fully Supervised Loop – Guardall Panels

Figure 5: Single Leaf Door

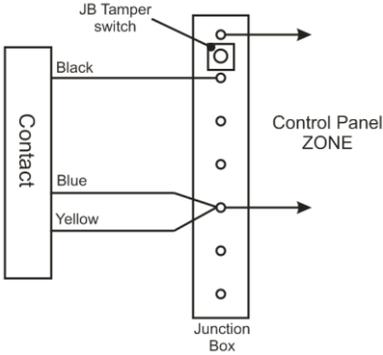
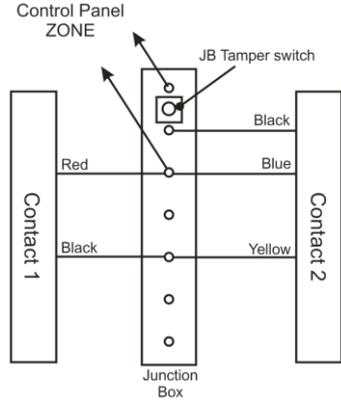


Figure 6: Double Leaf Door



SPECIFICATION

Contact

Material	Rhodium
Power Handling	10VA
Voltage Rating	100Vdc, 150Vac max

Current Rating – Switch	1.0A max
Current Rating – Carry	1.5A max
Resistance	<300 mohms (inc. 1.0m wire)
Operating Life	>1 x 10 ⁸ operations

Connections

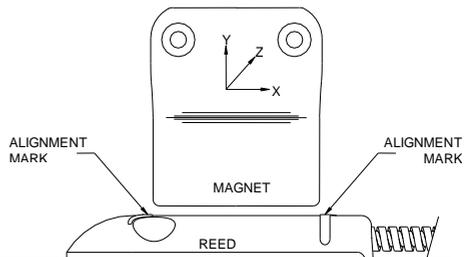
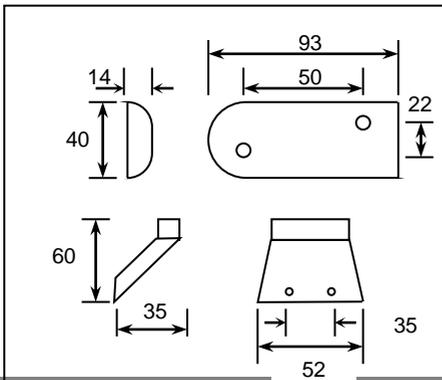
Total Wire Length	1.0m
Conduit Length	0.5m

Housing

Material	Cast Aluminium
IP Rating	IP67
IK Rating	IK07
Temperature Range	-25°C to +50°C
Humidity Range	0 to 95% RH

Mechanical

Switch – Dimensions	93mm x 40mm x 14mm
Switch – Fixing Centres	50mm x 22mm
Mounting Screws	M4
Magnet – Dimensions	52mm x 60mm x 35mm
Magnet – Fixing Centres	35mm
Mounting Screws	M4



OPERATING DISTANCES

Operating Distance each axis		Switch mounted on Non-magnetic Surface (e.g. Wood, PVC, Aluminium)	Switch Mounted on Magnetic Surface (e.g. iron, steel)
Y	Min Close (mm)	53	30
	Max Open (mm)	78	50
+/- X	Min Close (mm)	20	14
	Max Open (mm)	31	27
Z	Min Close (mm)	78	37
	Max Open (mm)	106	53