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VHDA-GN Contact Wiring Guide

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

Features
- Large surface heavy duty terminal contact
- Configurable for Fully Supervised Loop (FSL) & Double Pole wiring
- Single & multiple door operation

Magnet

Sensor
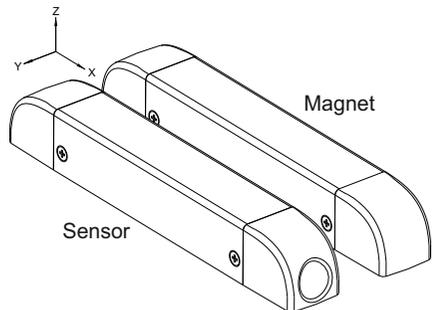
Operating Distances

		Switch mounted on Non-Ferrous Surface (e.g. Wood, PVC, Aluminum)	*Switch mounted on Ferrous Surface (e.g. Iron, Steel)
Y	Min Close (mm)	42	30
	Max Open (mm)	60	38
+/- X	Min Close (mm)	23	21#
	Max Open (mm)	29	26#
Z	Min Close (mm)	63	47#
	Max Open (mm)	78	56#

* For guidance purposes only, #At Y = 6mm

Unit can be wired in the following formats:
1. Fully supervised loop, single leaf door configuration: Figure 1
2. Fully supervised loop, double leaf doors configuration: Figure 2
3. Standard double pole wiring, single leaf door configuration: Figure 3
4. Standard double pole wiring, double leaf door configuration: Figure 4

FSL/EOL

Figure 1 **- Single** Leaf Door Arrangement
Shunt Resistor + End Of Line Resistor (Series)

To Control
Panel Zone

| SP | SP | SP | T1 | T2 | | | T3 | T4 | SP | SP | SP |

SHUNT   EOL

Door 1

Cut **No** Links
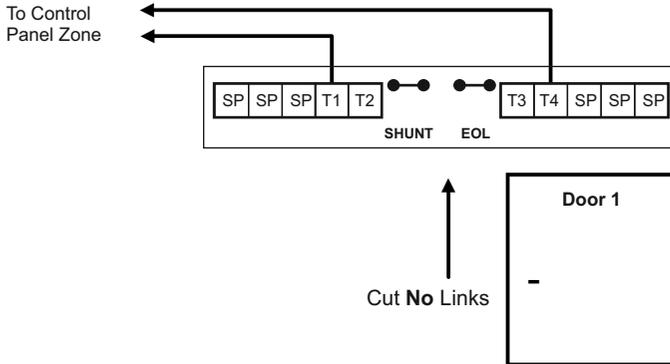
Figure 2 **- Double** Leaf Door Arrangement
Shunt Resistors + End Of Line Resistor (Series)

To Control
Panel Zone

| SP | SP | SP | T1 | T2 | | | T3 | T4 | SP | SP | SP |

SHUNT   EOL

| SP | SP | SP | T1 | T2 | | | T3 | T4 | SP | SP | SP |

SHUNT   EOL

Door 1

Cut **EOL** Llink

Door 2

Cut **No** Links
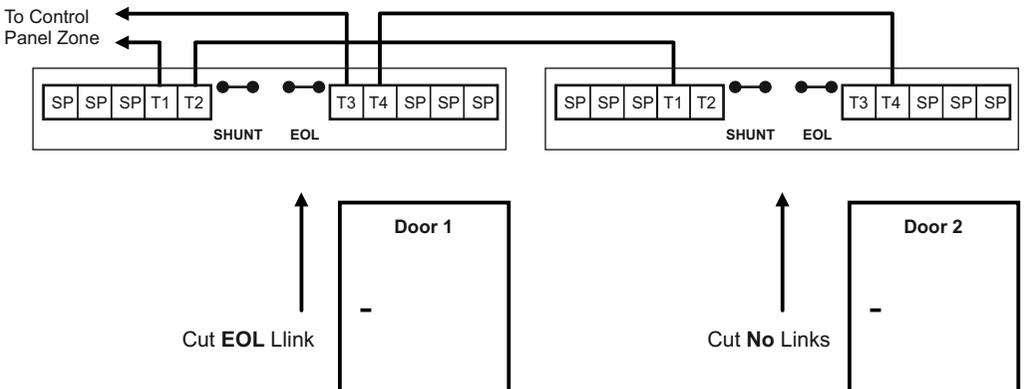
Double Pole

Figure 3 **Single** Leaf Door Arrangement

To Control Panel
Tamper Circuit

To Control Panel
Alarm Circuit

| SP | SP | SP | T1 | T2 | | | T3 | T4 | SP | SP | SP |

SHUNT   **EOL**

Door 1

-

Cut **SHUNT**
& **EOL** Links
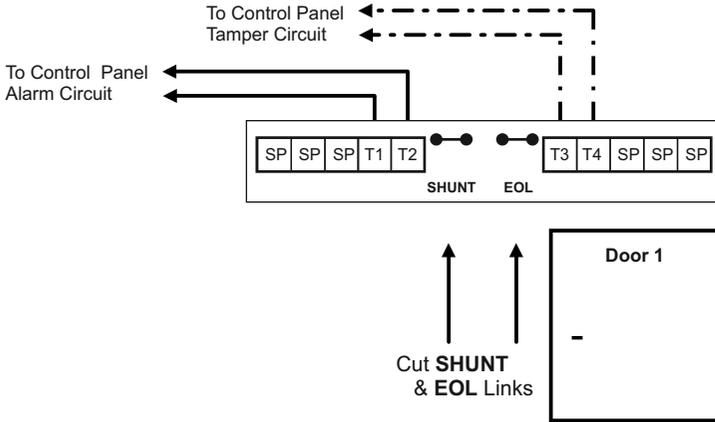
Figure 4 **- Double** Leaf Door Arrangement

To Control Panel
Tamper Circuit

To Control
Panel Alarm
Circuit

| SP | SP | SP | T1 | T2 | | | T3 | T4 | SP | SP | SP |

SHUNT   **EOL**

| SP | SP | SP | T1 | T2 | | | T3 | T4 | SP | SP | SP |

SHUNT   **EOL**

Door 1

-

Cut **SHUNT**
& **EOL** Links

Door 2

-

Cut **SHUNT**
& **EOL** Links
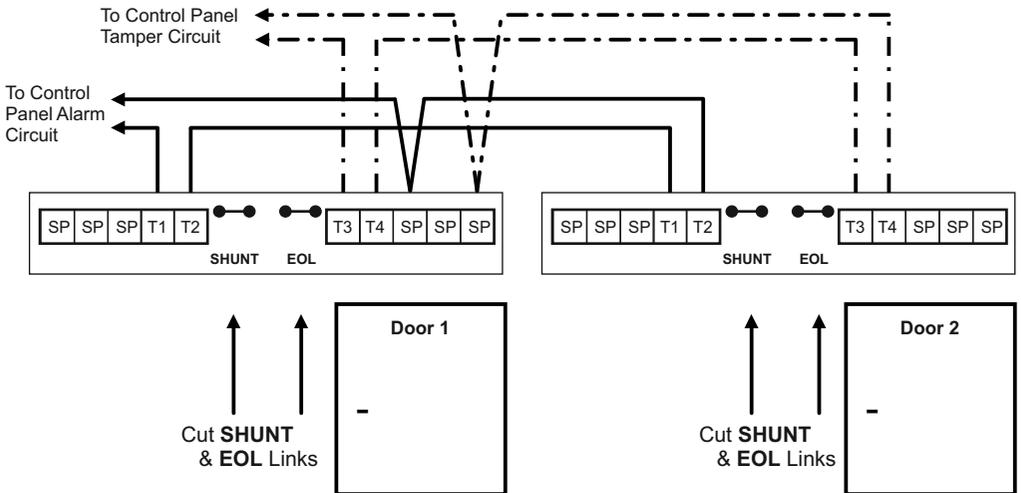
Specifications

Contact

Material	Rhodium
Power Handling	10VA
Voltage Rating	100Vdc, 150Vac Max
Current Rating - switch	1.0A Max
Current Rating - carry	1.5A Max
Resistance	<300mohms
Operating Life	>1 x 10^8 operations

Housing

Material	Plastic - ABS
	Aluminum
Body Dimension	170 x 25 x 25mm
Sensor - Fixing Dimensions	65 mm centres
Mounting Screws	M4
IP Rating	IP40
Temperature Range	-10°C to+40°C

Circuit Diagram

SHUNT   LINK   EOL   LINK   TAMPER

SPARE   REED   SPARE

SP SP SP T1   T2   T3   T4 SP SP SP

Unit Dimensions

25.00

25.00

170

65.00

12.50