

ELMDENE INTERNATIONAL LIMITED  
 3 KEEL CLOSE  
 INTERCHANGE PARK  
 PORTSMOUTH  
 HAMPSHIRE  
 PO3 5QD, UK

TEL: +44 (0) 23 9269 6638  
 FAX: +44 (0) 23 9266 0483

[www.elmdene.co.uk](http://www.elmdene.co.uk)



## LST-MR 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 terminal contact
- Built-in EOL resistors covering multiple control panels
- High reliability cover tamper
- Configurable for Fully Supervised Loop (FSL) and Double Pole wiring
- Single and Multiple door operation

### EOL Resistor Selection for Spectrum Range Contacts

Use the following table to select the correct Shunt and EOL resistors and corresponding link settings to match the control panel. The Spectrum range colour coding is shown for each combination.

Spectrum Range		Resistors		Links		Connection Mode	Control Panel
Code	Colour	Shunt	EOL	Shunt	EOL		
GN	Green	1K0	1K0	L6	L1	Series	Honeywell
YL	Yellow	2K2	2K2	L7	L2	Series	Bosch, Europlex
GY	Grey	4K7	4K7	L8	L3	Series	Aritech, Pyronix
RD	Red	4K7	2K2	L8	L2	Series	ADE, Bosch, Castle, Menvier, Pyronix, Scantronic, Texecom
* BL	Blue	8K2	8K2	L5	L4	Parallel	Guardall

\*Default Configuration

**Table 1: EOL Resistor and Link Selection**

### Installation:

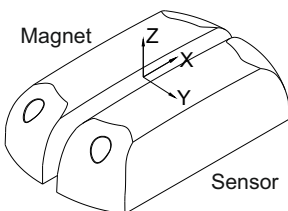
- Step 1: Choose configuration for FSL or double pole and number of doors. See Figs 1 - 4  
 Step 2: Choose and fit FSL resistors links according to Table 1 and Figs 1 - 4

- Figure 1: Fully supervised loop, single leaf door configuration.  
 Figure 2a & 2b: Fully supervised loop, double leaf door configuration.  
 Figure 3: Standard double pole wiring, single leaf door configuration.  
 Figure 4: Standard double pole wiring, double leaf door configuration.

### Operating Distances:

Switch mounted on  
 Non-Magnetic Surface  
 (e.g. Wood, PVC, Aluminum)

\*Switch mounted on  
 Magnetic Surface  
 (e.g. Iron, Steel)

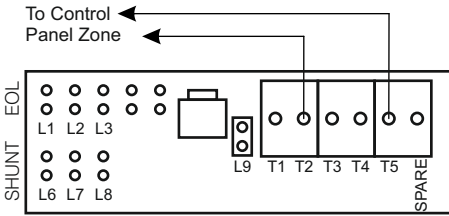


Y	Min Close (mm)	40	27
	Max Open (mm)	54	36
+/- X	Min Close (mm)	13	11
	Max Open (mm)	19	18
Z	Min Close (mm)	52	43
	Max Open (mm)	67	53

\* For guidance purposes only

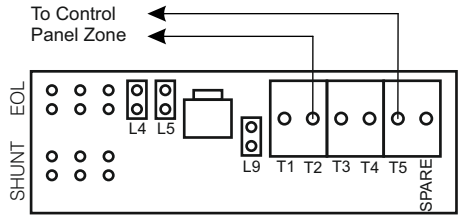
# FSL/EOL

Figure 1 - **Single Leaf Door Arrangement - Series or Parallel Shunt Resistor + End Of Line Resistor**



**Series**

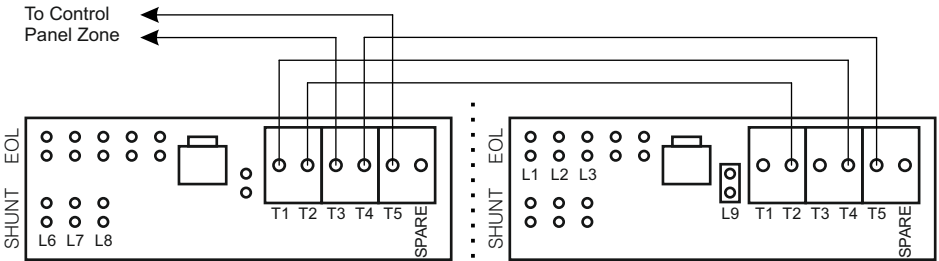
Fit Jumpers - See Page 1, Table 1. & L9



**Parallel**

Fit Jumpers - L4, L5, & L9.

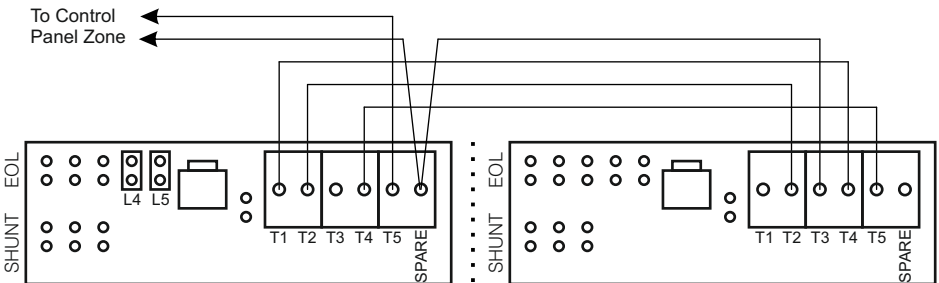
Figure 2a - **Double Leaf Door Arrangement - Series Shunt Resistors + End Of Line Resistor**



**Sensor 1 - Fit SHUNT Jumpers Only**  
See Page 1, Table 1.

**Sensor 2 - Fit EOL Jumpers Only**  
See Page 1, Table 1, & L9

Figure 2b - **Double Leaf Door Arrangement - Parallel Shunt Resistors + End Of Line Resistor**



**Sensor 1**  
Fit Jumpers L4 & L5

**Sensor 2**  
Remove **ALL** Jumpers

# Double Pole

Figure 3 **Single** Leaf Door Arrangement

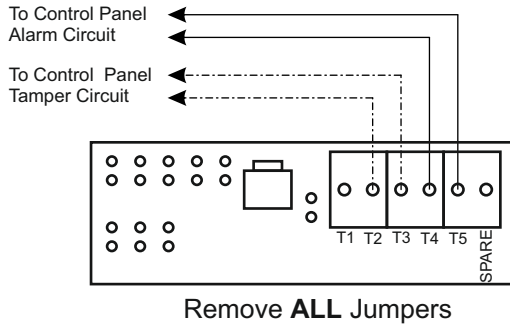
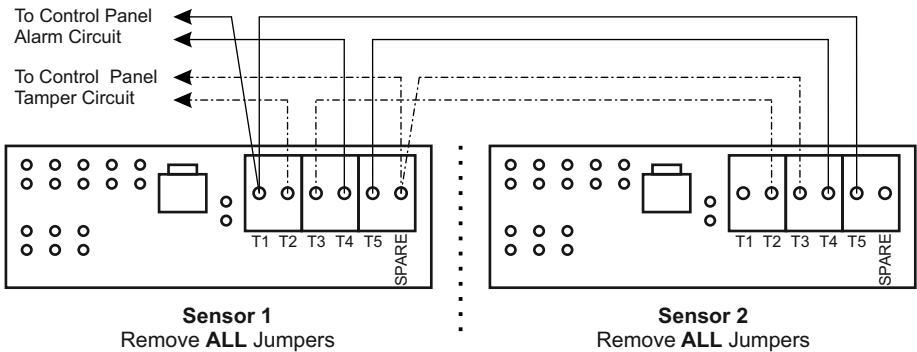


Figure 4 - **Double** Leaf Door Arrangement



# Specifications

## Contact

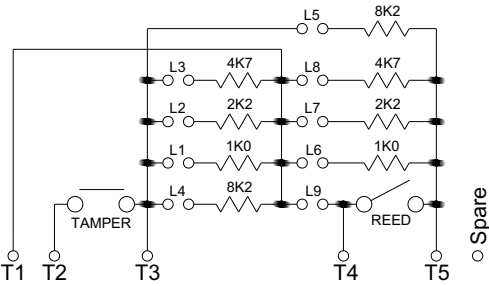
Material	Rhodium
Power Handling	10VA
Voltage Rating	100Vdc, 150Vac Max
Current Rating - switch	1.0A Max
Current Rating - carry	1.5A Max
Resistance	<300mohms
Operating Life	>1 x 10 <sup>8</sup> operations

## Housing

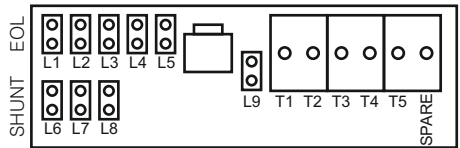
Material	Plastic - ABS
Sensor Dimension	93 x 25 x 25mm
Sensor - Fixing Dimensions	52 mm centres
Mounting Screws	M3
Magnet Dimensions	93 x 25 x 25mm
Magnet - Fixing Dimensions	45 mm centres
Mounting Screws	M3

IP Rating	IP40
Temperature Range	-10°C to +40°C

## Circuit Diagram

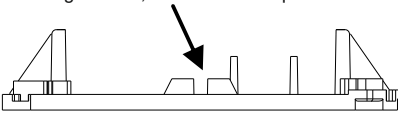


## Terminals & Jumpers

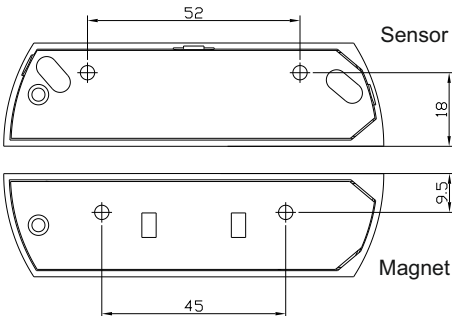


## Cable Grip

Cable grip designed for 4 or 6 core cable.  
For larger cable, trim walls as required.



## Fixing Positions



## Lid Attachment

