

MECHAN CONTROLS

MAGNASAFE

M18 BARREL SAFETY SWITCH SPECIAL- SY CABLE VERSION

INSTALLATION GUIDE

MS2



- 1) PART NUMBERS: **M18 BARREL MOUNT SAFETY SWITCHES**
- | | |
|-----------|-----------|
| MS2-10-AC | MS2-10-DC |
| MS2-11-AC | MS2-11-DC |

Note: Cable length to be added to the part number



This information is designed to help suitably qualified personnel install and operate Mechan Safety Switch equipment. Before using this product, read this guide thoroughly along with any relevant European and/or National standards e.g. Machinery Directive 89/392/EEC and it's amendments, Provision and Use of Work Equipment Regulations. Further information can be obtained from Mechan Controls Limited ***** **KEEP THIS GUIDE FOR FUTURE REFERENCE** *****

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2) DESCRIPTION

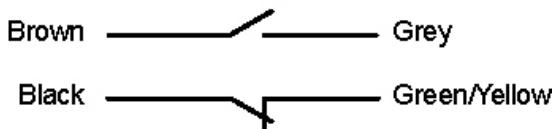
The MAGNASAFE safety switch is a magnetically operated non-contact safety switch for use in machine guarding applications. With correct fitting, it complies with the guidelines given in EN1088. When fitted to a machine guard as shown below, (5) the safety contact(s) will be closed when the guard door is closed and will open when the guard door is opened.

NOTE: The auxiliary contact is for indication purposes and will close when the guard door opens.

Mechan Controls also manufacture a range of tamper-resistant and tamper-proof safety systems which may be more suitable for some applications. For more information ask for details on the **ISIS** ; **F-SERIES** and **CODEX** safety systems.

3) CONNECTIONS

MS2-11-DC-SY-01M

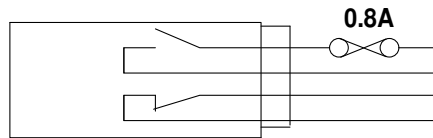


4) CONTACTS & FUSES

Safety Contacts

MAGNASAFE DC rated switches must be used to **switch DC loads**

DC Switch: External Fuse = 0.8A Fast Acting



Fuses : Each safety contact must be fused externally.

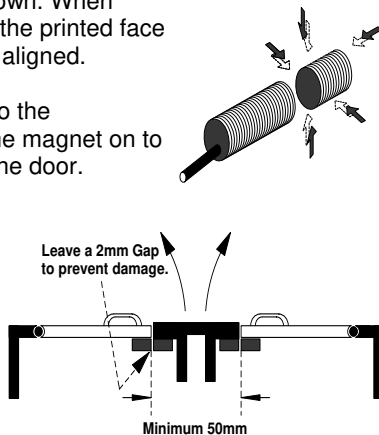
5) MOUNTING

The Magnasafe safety switches can approach each other from any angle as shown. When closed the targets on the printed face of the switch must be aligned.

Mount the switch on to the machine frame and the magnet on to the opening edge of the door.

Do not use the safety switch as a door stop.

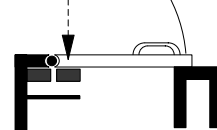
Leave a minimum of 50 mm between any adjacent switch.



Use a locking compound to fix the Nuts.

Always try to mount the switch on non-ferrous material. Ferrous material will reduce the switching distance.

WRONG!

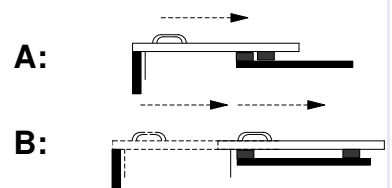


Do not mount the switch on to the hinge side of the door.

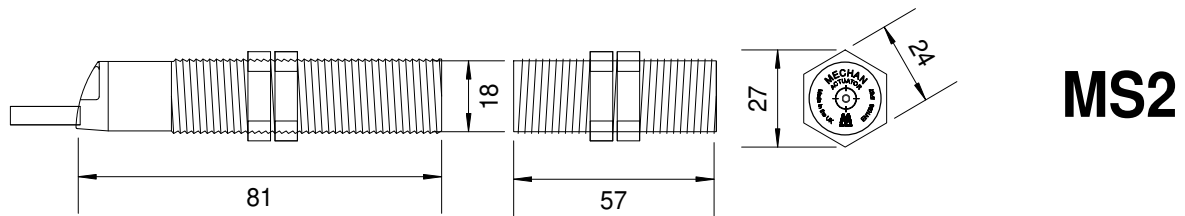
SLIDING DOORS

EN 1088 provides some mounting suggestions, see below.

When fixing the safety switch to a sliding door (A), ensure that when the door is opened (B) the switch is not easily accessible, helping prevent the system being overridden.



6) DIMENSIONS / FIXING POINTS



NOTE: All dimensions are in mm

7) TECHNICAL SPECIFICATIONS

PART NUMBER	MS2-10-AC-SY-03M	MS2-11-AC-SY-03M	MS2-10-DC-SY-03M	MS2-11-DC-SY-03M
Switching Voltage	AC	AC	DC	DC
Safety Contacts	1	1	1	1
Auxiliary Contacts	0	1	0	1
Safety Contact : rating	230vAC / 2A Inductive / Resistive		30vDC / 1A Inductive / Resistive	
Safety Contact : operating distance	10mm On / 25mm Off		10mm On / 25mm Off	
Safety Contact : close, drop, bounce	3ms / 2.1ms / 0.7ms		3ms / 2.1ms / 0.7ms	
Auxiliary Contact : rating	15W / 10VA		15W / 10VA	
Auxiliary Contact : operating distance	8mm On / 10mm Off		10mm On / 25mm Off	
Auxiliary Contact : close, drop, bounce	0.5ms / 0.3ms / 0.7ms		0.5ms / 0.3ms / 0.7ms	
Internal Fuse	2A Fast Acting		1A Fast Acting	
External Fuse (Customer Supplied)	1.6A Fast Acting		0.8A Fast Acting	
IP Rating	IP67			
Vibration / Shock	50 to 100 Hz / 10g			
Operating Temperature	-10°C to +55°C			
Mounting & Fixing	Target to Target, Fixing nuts supplied			
Colour / Construction	Red ABS Case, Resin Filled			
Cable	2 Core SY	4 Core SY	2 Core SY	4 Core SY

8) ORDERING INFORMATION

When ordering the MAGNASAFE safety switch, our part number gives all the information required including:

Enclosure style; Number of safety contacts; Number of Auxiliary contacts, which voltage range it will switch: AC or DC and cable length

Note: The standard cable length is 3 metres, longer cables are available to order.

E.g.

MS2-10-DC-10M = M18 Switch, 1 x Safety Contact, 0 x Auxiliary Contact, DC Switching, 10 Metre cable.

MS x -xx - xx - xx

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BOX STYLE

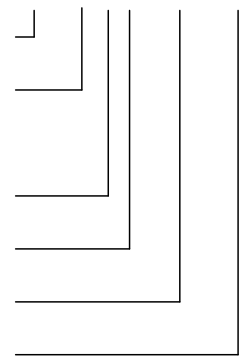
(1=Standard, 2=M18, 3=M30)

SAFETY CONTACTS (1 or 2)

AUXILIARY CONTACTS (1 or 0)

AC or DC SWITCHING

CABLE LENGTH



Mechan Safety switches comply with the relevant EMC and Low Voltage Directives along with the Essential Health and Safety Requirements of the Machinery Directive (89/392/EEC & amendments 91/368/EEC, 94/44/EEC) where required. Copies of the Certificate of Conformity can be obtained from Mechan Controls Limited

In the interest of product development, specifications are subject to change without notice.
Document No. - MS2SY-SPECIAL

It is the responsibility of the user to ensure compliance with any acts or by-laws in force.

All information regarding Mechan equipment is believed to be accurate at the time of printing. Responsibility cannot be accepted for errors or omissions.



For more information

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