## MECHAN CONTROLS

Installation Guide : MS6, MS6-SS, MS21, MS21-SS Safety Switches


## Description:

MAGNASAFE safety switches are non-contact, magnetically operated switch and actuator, suitable for use in machine guarding applications.

Magnasafe Safety switches are designed to be used in part of safety related control system. A risk assessment should take place to establish that the specifications of these safety switches are suitable for the application required.
See Technical Specifications below or contact Mechan Controls for further information.

Keep this guide for future reference This information is designed to help suitably qualified personnel install and operate Mechan Safety equipment. Before using this product, read this guide thoroughly along with any relevant European and/or National standards e.g. Machinery Directive 2006/42/ EC and it's amendments, Provision and Use of Work Equipment Regulations. Further information can be obtained from Mechan Controls.


Dimensions


MS6 SS


MS21 SS


## M12 QUICK DISCONNECT OPTION

Switch with M12 connector MS6/MS6-SS/MS21/MS21-SS


## All Dimensions in MM

## Operation

Mechan Magnasafe safety switches can approach each other from most directions. When closed the targets printed on the front face of the switches must be aligned (large target to large target and small target to small target as shown above)


## Mounting

Do not use safety switches as a stop. 1 mm separation when closed provides the best results.

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

Always try to mount the switch on non-ferrous material. (Ferrous materials may reduce the switching distance.)

Minimum separation 50mm between adjacent switches.
 NOTE : MS21-SS-SP-ACT If mounting switch and actuator on ferrous metal using the MS21-SS-SP-ACT actuator may improve the switching performance (Actuator has red encapsulation)

Connections and Fuses
PRE-WIRED

MS6-10 (ac\&dc)
MS6-10 (110ac)
MS6-SS-10 (dc)
Brown _- Blue

MS6-SS-10 (ac)


## QUICK DISCONNECT

MS6-10 (ac\&dc)

Connector Contact Cable


Connector Micro DC M12

MS6-11 (ac\&dc)
MS6-SS-11 (dc)
MS21-11 (ac\&dc)

Connector Contact Cable


Connector Micro DC M12


Connector
Micro DC M12

MS6-21 (ac\&dc)
MS6-SS-21 (dc)
MS21-21 (ac\&dc)


MS21-SS-21 (ac\&dc)


MS6-21 (ac\&dc)
MS6-SS-21 (dc)
MS21-21 (ac\&dc)
MS21-SS-21 (dc)
Connector Contact Cable


Connector
Micro AC 1/2" - 20

MS6-SS-10 (ac)
Connector Contact Cable


Connector
Micro DC M12

$\left.$| Contact |
| :--- | :--- |
| Operation | | The N/O contacts on the Mechan switches are open when the actuator |
| :--- |
| is away from the switc. |
| When the actuator is within the specified operating distance the N/O |
| contact will close and the N/C contact will open. | \right\rvert\,

## Switching Characteristics

## MS6




MS21



Recommended Safety Control Unit


## Recommended Safety Control Unit

Mechan Part Number : SRL-1 24VAC/DC

## Maintenance

It is recommended to check the safe operation of the of the switches and look for signs of damage or excessive wear on a weekly basis. Damaged units should be replaced or returned to the manufacturer for repair where practical.

## Declaration of Conformity

Mechan Controls declares that the products shown conform to the Essential Health and Safety Requirements of the European Machinery Directive. The above products have been third party tested to conform to the requirements of EN-13849-1 and EN 62061. Full declaration of conformity can be downloaded from the Mechan Controls web site www.mechancontrols. co.uk or by contacting Mechan directly Tel : + 441695722264

## NOTES

In the interest of product development specifications are subject to change without notice. It is the responsibility of the user to ensure compliance with any acts or by-laws in place. All information regarding Mechan equipment is believed to be accurate at the time of printing. Responsibility cannot be accepted for errors or omissions.

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