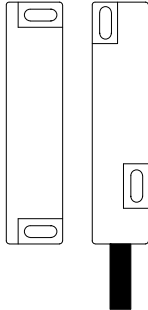


<h1 style="margin: 0;">MAGNUS MG</h1> <h2 style="margin: 0;">SAFETY SWITCH INSTALLATION GUIDE</h2>	<p>Type: MG</p> 	<p>1) Part Number</p> <p><b>MG RSM11C3</b></p>
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**CAUTION** This information is designed to help suitably qualified personnel install and operate REER Safety Switch equipment. Before using this product, read this guide thoroughly along with any relevant European and/or National standards e.g. Machinery Directive 2006/42/CE and its amendments, Provision and Use of Work Equipment Regulations. Further information can be obtained from REER S.p.A.

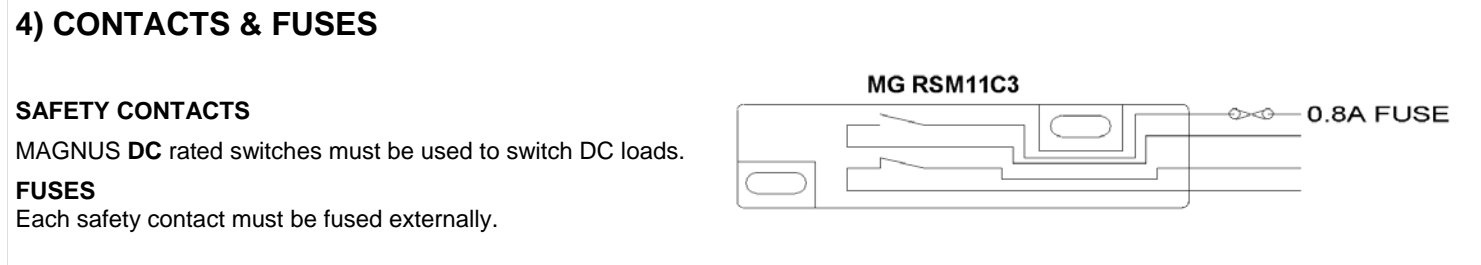
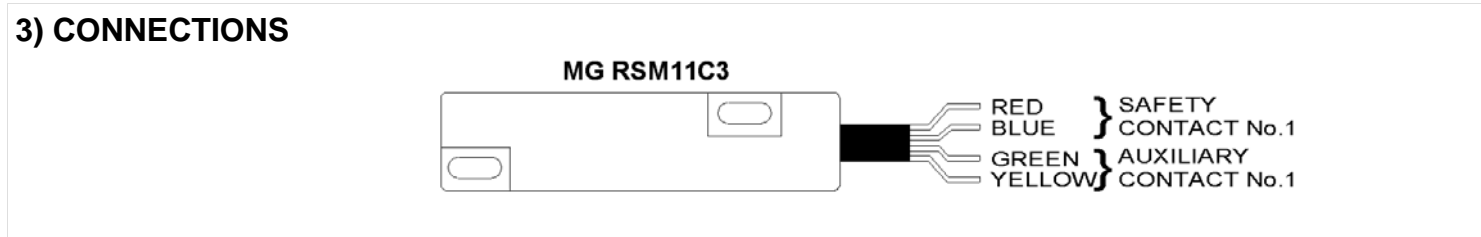
\*\*\*\*\* **KEEP THIS GUIDE FOR FUTURE REFERENCE** \*\*\*\*\*

<b>CONTENTS</b>	1 PART NUMBERS 2 DESCRIPTION 3 CONNECTIONS	4 CONTACTS & FUSES 5 MOUNTING 6 DIMENSIONS / FIXING POINTS	7 TECHNICAL SPECIFICATIONS 8 ORDERING INFORMATION
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**2) DESCRIPTION**

The MAGNUS 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.**



**5) MOUNTING**

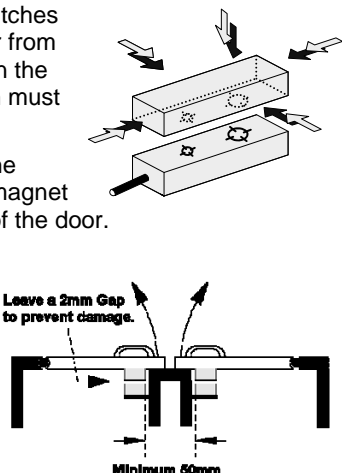
The MAGNUS safety switches can approach each other from any angle. The targets on the printed face of the switch must be aligned.

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

Use the tamper proof screws provided.

Do not use the safety switch as a door stop.

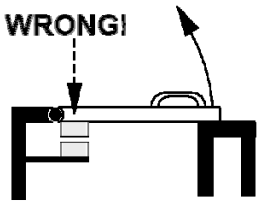
Leave a minimum of 50 mm between any adjacent switch.



Leave a 2mm Gap to prevent damage.  
Minimum 50mm

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

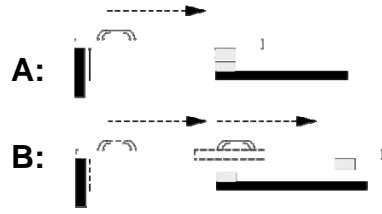
**WRONG!**



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

**SLIDING DOORS**  
EN 1088 provides some mounting suggestions, see example below.

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



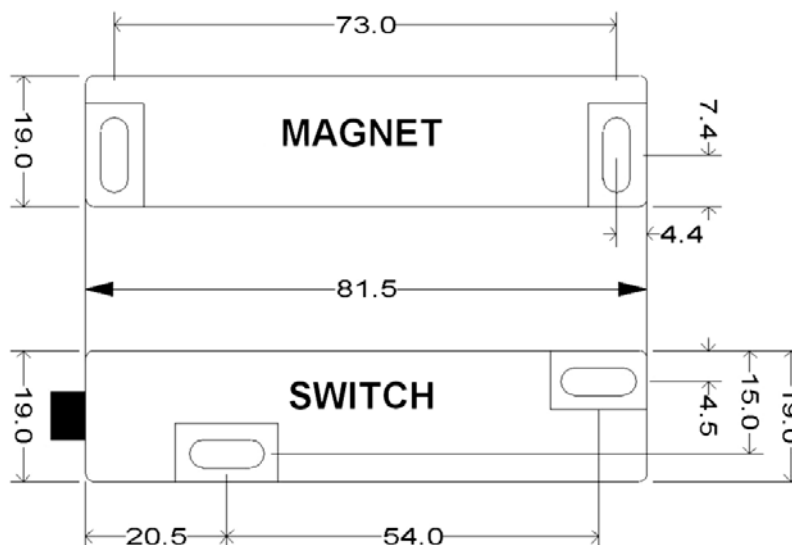
A:  
B:



## 6) DIMENSIONS / FIXING POINTS

### NOTE:

All dimensions are in mm



## 7) TECHNICAL SPECIFICATIONS

Part Number	MG RSM11C3
Contact Arrangement	1 x N/O + 1 x N/C
Safety Contact: Rating	30Vdc / 1Amp Inductive/Resistive
Safety Contact: Operating Distance	10mm ON / 25mm OFF
Safety Contact: Close/Drop/Bounce	3ms / 2.1ms / 0.7ms
Auxiliary Contact: Rating	15W / 10VA
Auxiliary Contact: Operating Distance	8mm ON / 10mm OFF
Auxiliary Contact: Close/Drop/Bounce	0.5ms / 0.3ms / 0.7ms
Internal Fuse	1 Amp Fast Acting
External Fuse (Customer Supplied)	0.8 Amp Fast Acting
IP Rating	IP67
Vibration / Shock	50–100Hz / 10g
Operating Temperature	-10 to +55C
Mounting & Fixture	Target to Target
Connection	Pre-wired
Construction	316 Grade Stainless Steel, Resin Filled
<b>Functional safety data</b> (according to ISO 13849-1)	
B10d	2 x 10 <sup>6</sup> Operation - each contact (60% of the rated load)
MTTFd	100 years (for each contact) (Based on an usage rate of 360days/y, 24hours/d, 10 operations/h)
T10d (mission time)	20 years
PFHd	4,3 x 10 <sup>-8</sup> (Based on dual channel wiring according to Category 3, Diagnostic Coverage provided by the downstream control logic DC = medium, MTTFd = 100years)
May be suitable for performance level applications <b>PLe</b> or <b>PLd</b> according to ISO 13849-1. ( <b>SIL3</b> or <b>SIL2</b> according to IEC 62061)	

REER Safety switches comply with the relevant EMC and Low Voltage Directives along with the Requirements of the Machinery Directive (2006/42/CE) where required.





**EC declaration of conformity**

Torino, 06/12/2010

REER SpA  
via Carcano 32  
10153 – Torino  
Italy

We hereby declare that **MAGNUS MG RSM11C3** is a safety switch complying with the following European Directives :

- **2006/42/CE** "*Machine Directive*"
- **2006/95/CE** "*Low Voltage Directive*"

and other relevant EC Directives as listed below :

- **EN1088:1995 +A1:2007+A2:2009** - *Safety of Machinery, Interlocking devices associated with guards. Principles for design and selection*
- **BS EN60204-1:2006 +A1: 2009** - *Safety of Machinery, Electrical equipment of machines. General requirements.*
- **BS EN 12100-1 2003 +A1:2009** - *Safety of Machinery, Basic concepts, general principles for design – Part1: Basic terminology, methodology*

The overall machine must comply with the machinery directive.  
For further information please contact REER SpA.

**Carlo Pautasso**  
Direttore Tecnico  
Technical Director



**Simone Scaravelli**  
Amministratore Delegato  
Managing director

