

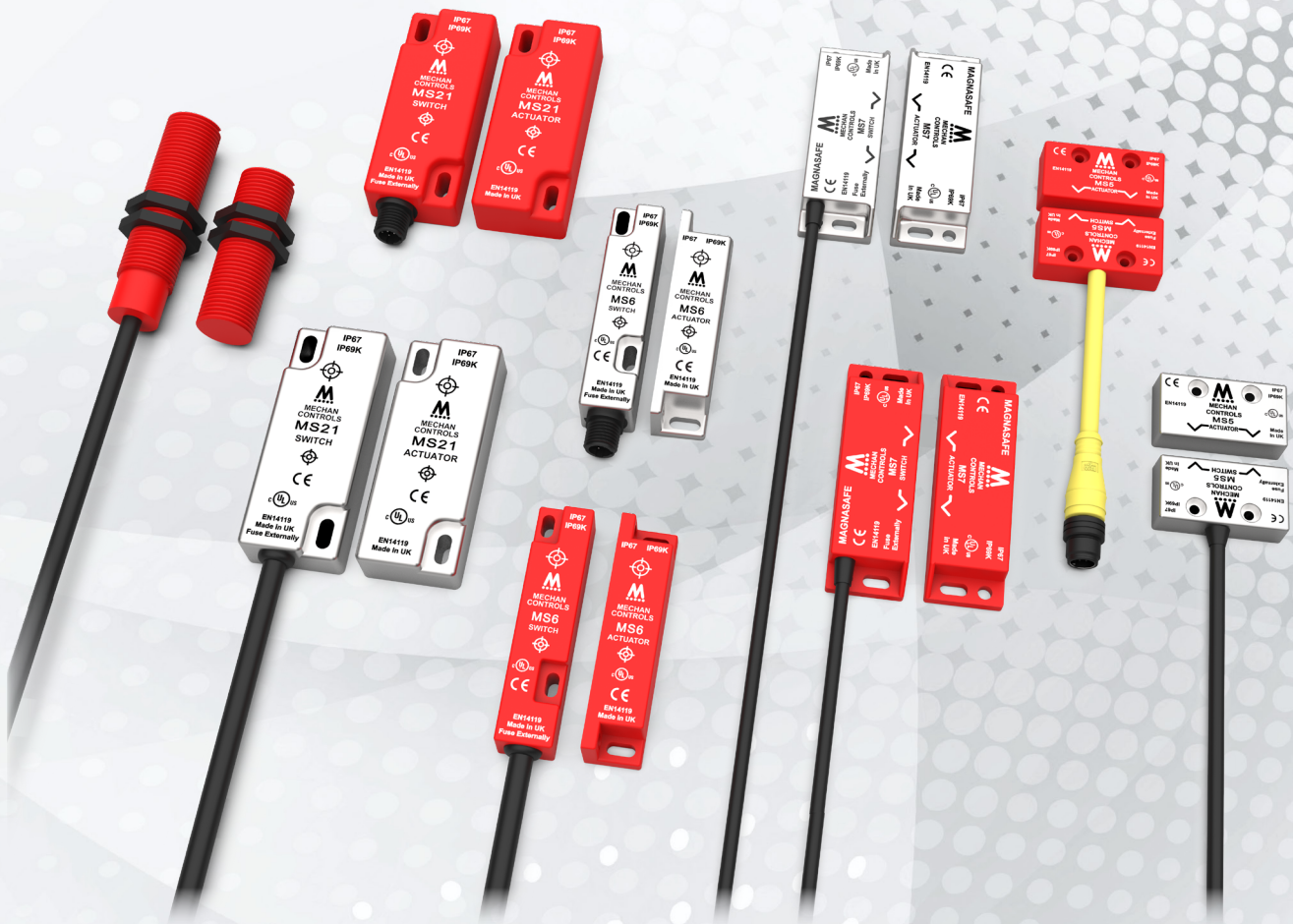
Sales@axxacnc.com - 01782 497000



MMECHAN
CONTROLS



AXXA
The Power
Behind Production



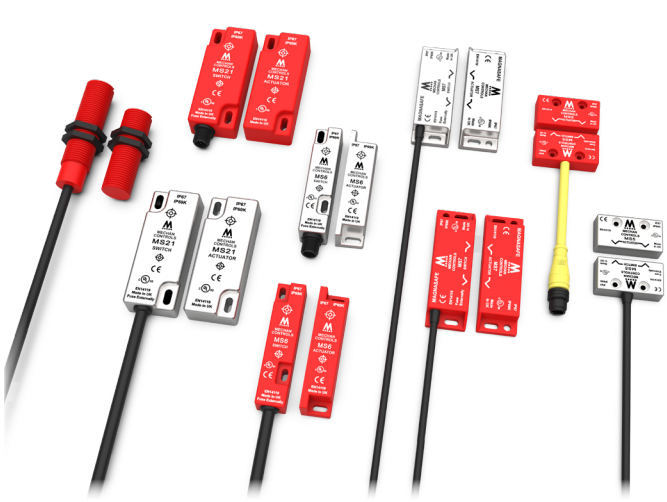
Product Brochure

Magnasafe Safety Switches

Machine Safety for People and Productivity

Features and Benefits

Introduction



The Magnasafe range are magnetically operated safety switches. Easy to install and maintain, they are fully encapsulated non-contact switches ideal for long term use in harsh / wet environments. Available in a wide variety of sizes and contact configurations, MAGNASAFE are suitable for machine guarding applications where guard locking is not required.

Tolerant to misalignment, the MAGNASAFE range of non-contact safety switches are suitable for use in wash-down areas, making them ideal for use in the food processing / filling and packing industries as well as many other non-locking machine guard applications.

Operation



The Magnasafe range are magnetically operated, they use high quality reeds and magnets to open and close the safety / auxiliary contacts. Mechan Controls describe the state of the safety contacts as N/O (normally open) and the auxiliary contact as N/C (normally closed) when the door is open and not within operating distance.

Volt Free Outputs

The Magnasafe range use volt free contact outputs. Volt free contacts are invariably mechanical contacts with no electrical connection to any other part of the equipment with the contacts being open and closed mechanically by the corresponding actuator. In order to form a safety circuit, connection to monitored safety inputs is required.

IP67 and IP69K Tested

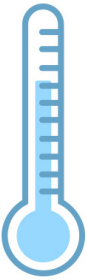
The Magnasafe range are fully encapsulated with resin and hardner. This means they are suitable for environments with strict wash down procedures used in food and beverage manufacturing.



Tolerant to Temperatures

The mechanical design means the Magnasafe range are tolerant to high and low temperatures.

If your application temperatures are higher than +55°C, we offer special high temperature versions capable of reaching +125°C.



Compliance

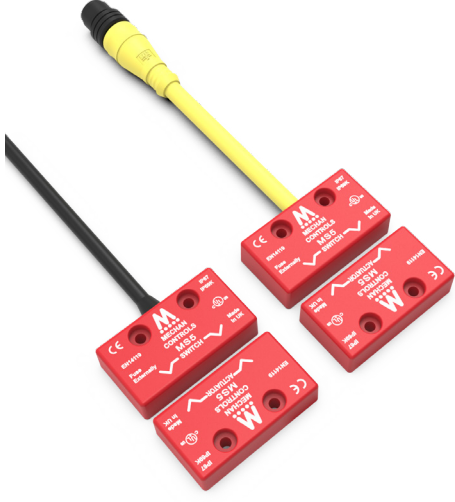
The Magnasafe range are available with a wide selection of contact configurations. The dual channel versions meet the requirements of CAT4, SIL3, PL-e in accordance with ISO 13849-1 and IEC 62061.

Following the guidelines set out in EN14119, the Magnasafe range are suitable for most non-locking applications.

CAT4, SIL3, PL-e

Product Selection

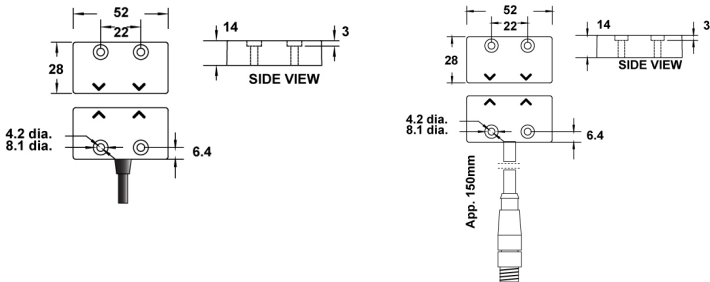
MS5 Compact Plastic Safety Switch



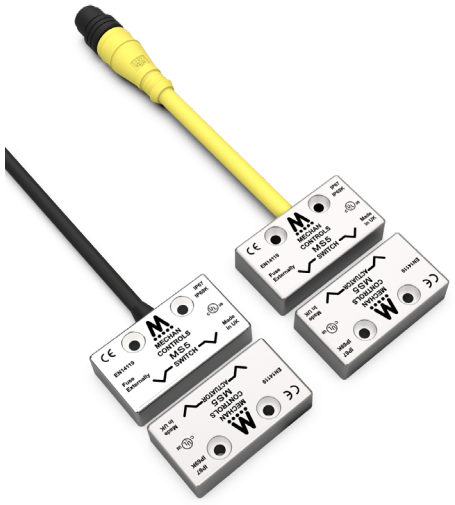
- ABS Housing, Compact Design
- 22mm Industry Standard Fixing
- IP67, IP69K Tested
- 500mA Safety Output Rating
- Cost Effective Design, Ideal for OEM's

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
354.050	MS5-21-DC-03M	2	1	DC	03 metre pre-wired
354.062	MS5-21-DC-06M	2	1	DC	06 metre pre-wired
354.061	MS5-21-DC-10M	2	1	DC	10 metre pre-wired
354.056	MS5-21-DC-LQD	2	1	DC	6-PIN M12 150mm
Cable Accessories for LQD version					
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M

Quality Marks:



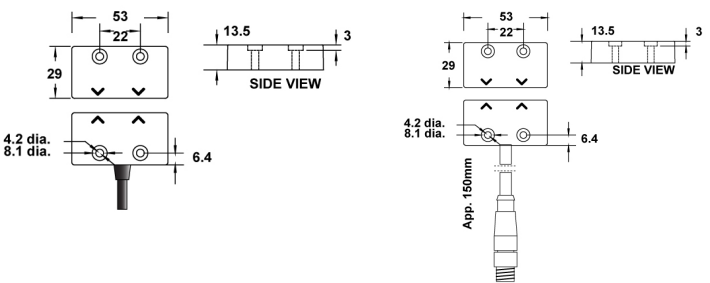
MS5 Compact Stainless Steel Safety Switch



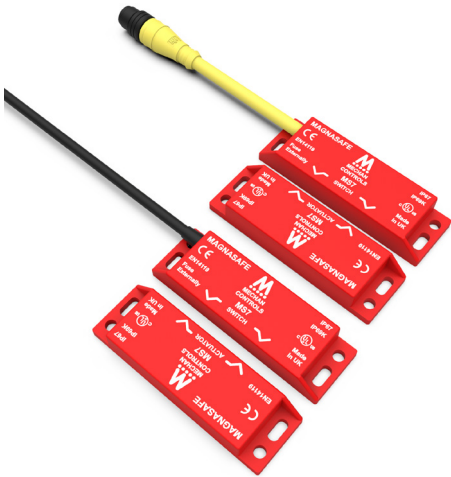
- 316 Stainless Steel Housing
- 22mm Industry Standard Fixing
- IP67, IP69K Tested
- 500mA Safety Output Rating
- Cost Effective Design, Ideal for OEM's
- Suitable for Strict Washdown Environments
- High Temperature Versions Available (+125c)

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
354.050	MS5-SS-21-DC-03M	2	1	DC	03 metre pre-wired
354.062	MS5-SS-21-DC-06M	2	1	DC	06 metre pre-wired
354.061	MS5-SS-21-DC-10M	2	1	DC	10 metre pre-wired
354.056	MS5-SS-21-DC-LQD	2	1	DC	6-PIN M12 150mm
354.057	MS5-SS-21-DC-05M-HT	2	1	DC	05 metre high temp cable
Cable Accessories for LQD version					
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M

Quality Marks:

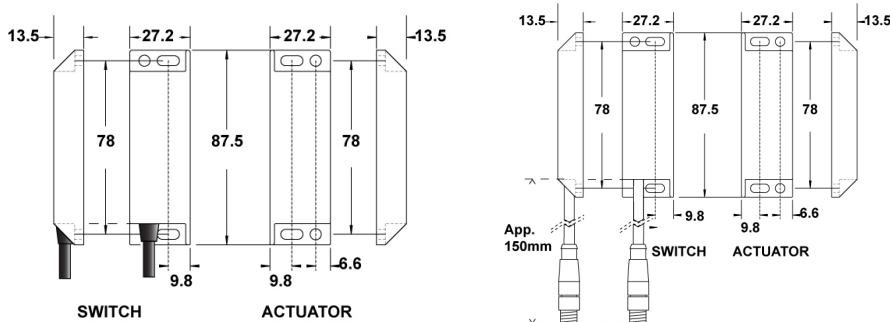


MS7 Coded Plastic Safety Switch

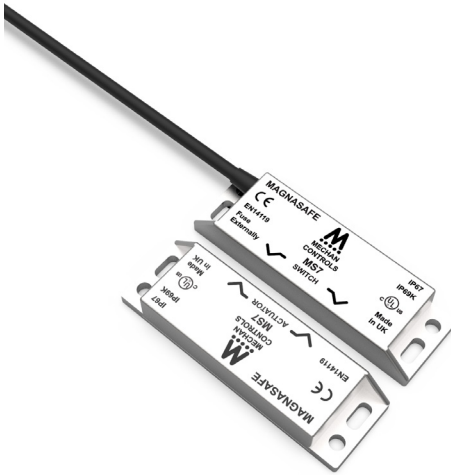


- ABS Housing
- Tamper Resistant Design
- IP67, IP69K Tested
- 500mA Safety Output Rating
- Fixed or Adjustable Mounting Holes
- European Standard Housing

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
357.000	MS7-21-DC-03M	2	1	DC	03 metre pre-wired
357.005	MS7-30-DC-03M	3	0	DC	03 metre pre-wired
357.001	MS7-21-DC-06M	2	1	DC	06 metre pre-wired
357.012	MS7-30-DC-06M	3	0	DC	06 metre pre-wired
357.003	MS7-21-DC-10M	2	1	DC	10 metre pre-wired
357.009	MS7-21-DC-LQD	2	1	DC	6-PIN M12 150mm
Cable Accessories for LQD version					
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M

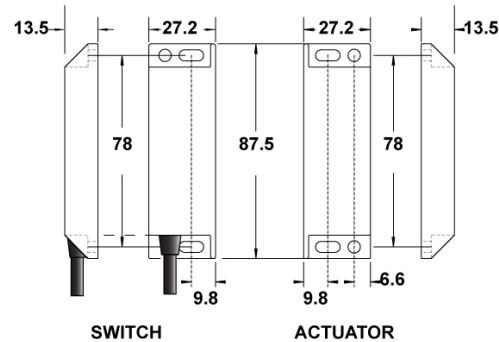


MS7 Coded Stainless Steel Safety Switch



- 316 Stainless Steel Housing
- Tamper Resistant Design
- IP67, IP69K Tested
- 500mA Safety Output Rating
- Fixed or Adjustable Mounting Holes
- European Standard Housing

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
357.020	MS7-SS-21-DC-03M	2	1	DC	03 metre pre-wired
357.022	MS7-SS-30-DC-03M	3	0	DC	03 metre pre-wired
357.021	MS7-SS-21-DC-05M	2	1	DC	05 metre pre-wired
357.023	MS7-SS-21-DC-10M	2	1	DC	10 metre pre-wired

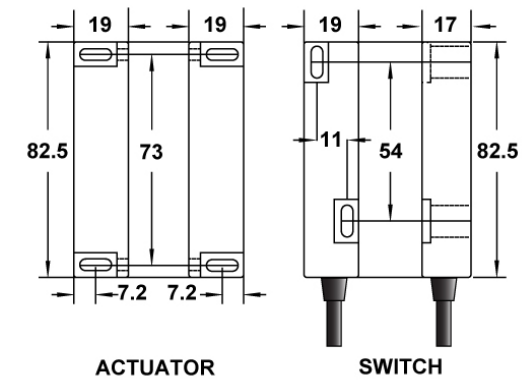


MS8 Plastic Safety Switch

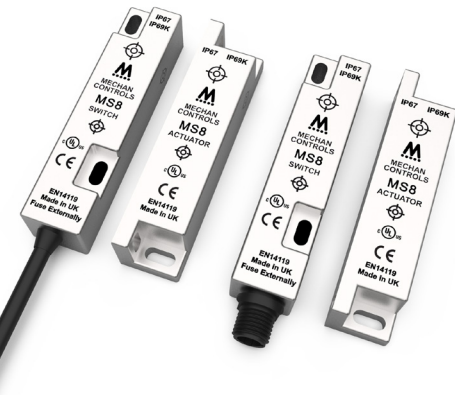


- ABS Housing
- IP67, IP69K Tested
- 3 Operating Faces
- 25mm Operating Distance
- 500mA Safety Output Rating
- Cost Effective Design, Ideal for OEM's

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
358.010	MS8-20-DC-03M	2	0	DC	03 metre pre-wired
358.011	MS8-20-DC-06M	2	0	DC	06 metre pre-wired
358.013	MS8-21-DC-03M	2	1	DC	03 metre pre-wired
358.014	MS8-21-DC-05M	2	1	DC	05 metre pre-wired



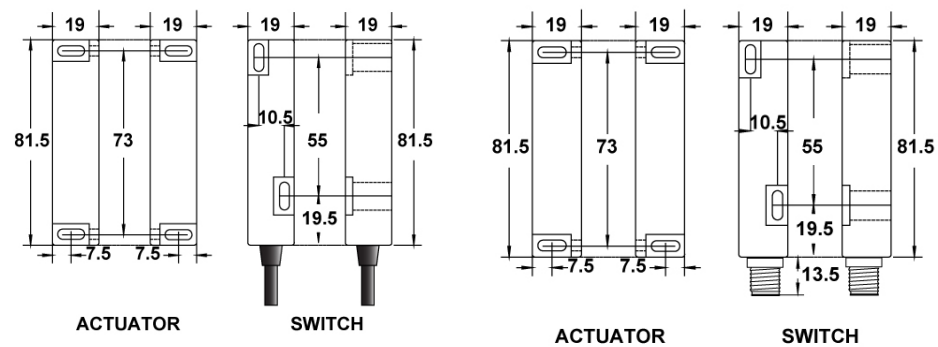
MS8 Stainless Steel Safety Switch



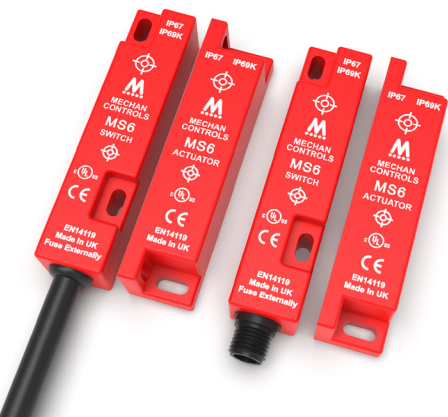
- 316 Stainless Steel Housing
- IP67, IP69K Tested
- 3 Operating Faces
- 25mm Operating Distance
- 500mA Safety Output Rating
- Cost Effective Design, Ideal for OEM's

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
358.004	MS8-SS-21-DC-03M	2	1	DC	03 metre pre-wired
358.000	MS8-SS-21-DC-05M	2	1	DC	06 metre pre-wired
358.003	MS8-SS-21-DC-10M	2	1	DC	10 metre pre-wired
358.002	MS8-SS-21-DC-QD	2	1	DC	6-PIN M12 Plug

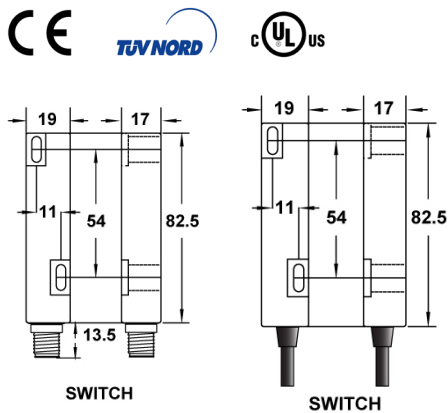
Cable Accessories for QD version					
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M



MS6 Slim-line Plastic Safety Switch



Quality Marks:



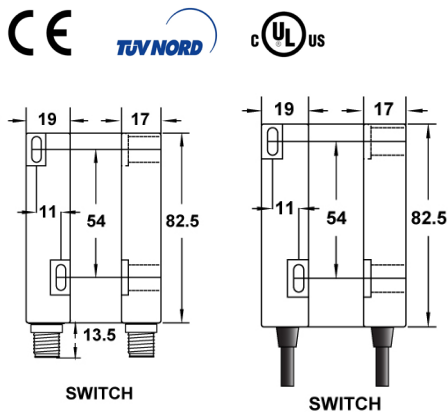
- ABS Housing
- Slim-line Design
- IP67, IP69K Tested
- 1Amp Safety Output Rating
- AC Versions Available
- 10mm Operating Distance

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
356.000	MS6-10-DC-03M	1	0	DC	03 metre pre-wired
356.001	MS6-10-DC-06M	1	0	DC	06 metre pre-wired
356.016	MS6-10-DC-QD	1	0	DC	4-PIN M12 Plug
356.002	MS6-11-DC-03M	1	1	DC	03 metre pre-wired
356.003	MS6-11-DC-06M	1	1	DC	06 metre pre-wired
356.017	MS6-11-DC-QD	1	1	DC	4-PIN M12 Plug
356.004	MS6-20-DC-03M	2	0	DC	03 metre pre-wired
356.005	MS6-20-DC-06M	2	0	DC	06 metre pre-wired
356.018	MS6-20-DC-QD	2	0	DC	4-PIN M12 Plug
356.006	MS6-21-DC-03M	2	1	DC	03 metre pre-wired
356.007	MS6-21-DC-06M	2	1	DC	06 metre pre-wired
356.019	MS6-21-DC-QD	2	1	DC	6-PIN M12 Plug
Cable Accessories for QD versions					
356.071	Cable 4 Core 5m	-	-	-	4-PIN M12 5M
356.072	Cable 4 Core 10m	-	-	-	4-PIN M12 10M
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M

MS6 Slim-line Stainless Steel Safety Switch



Quality Marks:



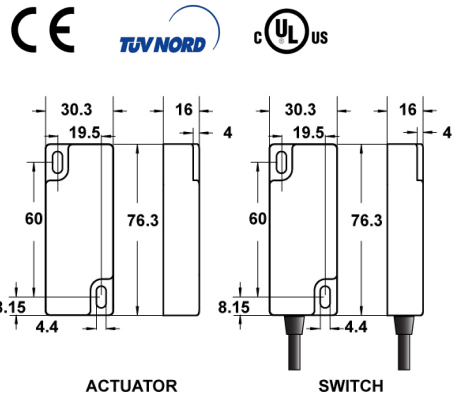
- 316 Stainless Steel Housing
- Slim-line Design
- IP67, IP69K Tested
- 1Amp Safety Output Rating
- AC Versions Available
- 10mm Operating Distance

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
356.050	MS6-SS-10-DC-03M	1	0	DC	03 metre pre-wired
356.058	MS6-SS-10-DC-06M	1	0	DC	06 metre pre-wired
356.051	MS6-SS-11-DC-03M	1	1	DC	03 metre pre-wired
356.085	MS6-SS-11-DC-06M	1	1	DC	06 metre pre-wired
356.064	MS6-SS-11-DC-QD	1	1	DC	4-PIN M12 Plug
356.052	MS6-SS-20-DC-03M	2	0	DC	03 metre pre-wired
356.057	MS6-SS-20-DC-06M	2	0	DC	06 metre pre-wired
356.063	MS6-SS-21-DC-03M	2	1	DC	03 metre pre-wired
356.078	MS6-SS-21-DC-06M	2	1	DC	06 metre pre-wired
356.069	MS6-SS-21-DC-QD	2	1	DC	6-PIN M12 Plug
Cable Accessories for QD versions					
356.071	Cable 4 Core 5m	-	-	-	4-PIN M12 5M
356.072	Cable 4 Core 10m	-	-	-	4-PIN M12 10M
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M

MS21 Plastic Safety Switch



Quality Marks:



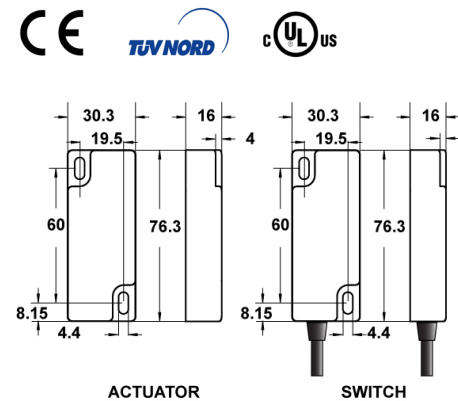
- ABS Housing
- Wide Bodied Design
- IP67, IP69K Tested
- 1Amp Safety Output Rating
- AC Versions Available
- 10mm Operating Distance

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
359.044	MS21-10-DC-03M	1	0	DC	03 metre pre-wired
359.000	MS21-11-DC-03M	1	1	DC	03 metre pre-wired
359.001	MS21-11-DC-06M	1	1	DC	06 metre pre-wired
359.025	MS21-11-DC-QD	1	1	DC	4-PIN M12 Plug
359.002	MS21-20-DC-03M	2	0	DC	03 metre pre-wired
359.003	MS21-20-DC-06M	2	0	DC	06 metre pre-wired
359.026	MS21-20-DC-QD	2	0	DC	4-PIN M12 Plug
359.004	MS21-21-DC-03M	2	1	DC	03 metre pre-wired
359.005	MS21-21-DC-06M	2	1	DC	06 metre pre-wired
359.027	MS21-21-DC-QD	2	1	DC	6-PIN M12 Plug
Cable Accessories for QD versions					
356.071	Cable 4 Core 5m	-	-	-	4-PIN M12 5M
356.072	Cable 4 Core 10m	-	-	-	4-PIN M12 10M
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M

MS21 Stainless Steel Safety Switch



Quality Marks:

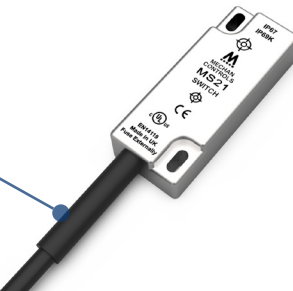


- 316 Stainless Steel Housing
- Wide Bodied Design
- IP67, IP69K Tested
- 1Amp Safety Output Rating
- AC Versions Available
- 10mm Operating Distance
- Tolerant to Misalignment

Stock Code	Part Description	Safety Contacts	Aux Contact	Current	Connection
359.074	MS21-SS-21-DC-03M	2	1	DC	03 metre pre-wired
359.075	MS21-SS-21-DC-06M	2	1	DC	06 metre pre-wired
359.076	MS21-SS-21-DC-10M	2	1	DC	10 metre pre-wired
359.089	MS21-SS-21-DC-QD	2	1	DC	6-PIN M12 Plug
359.091	MS21-SS-21-DC-8QD	2	1	DC	8-PIN M12 Plug
Cable Accessories for QD versions					
360.004	Cable 6 Core 5m	-	-	-	6-PIN M12 5M
360.012	Cable 6 Core 10m	-	-	-	6-PIN M12 10M
356.073	Cable 8 Core 5m	-	-	-	8-PIN M12 5M
356.077	Cable 8 Core 10m	-	-	-	8-PIN M12 10M

Special Design

MS21-SS-21-DC-03M-PVC
Reinforced PVC grommet designed to protect against cable damage.



Part Number Explanation

MS* - **SS** - **2 1** - ***C** - **03M** - **HT**

Housing Shape

MS5
MS6
MS7
MS8
MS21

Housing Material

Blank	Plastic
SS	Stainless Steel

Safety Channels

1	1 N/O (when door is open)
2	2 N/O (when door is open)
3	3 N/O (when door is open)

Output Voltage

AC	230VAC
DC	24VDC

Auxiliary Channels

0	No Auxiliary
1	1 N/C (when door is open)

Special Cable

HT	High Temperature
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Only available on selected models.

Connection Type

03M	3 Metre Pre-Wired
06M	6 Metre Pre-Wired
10M	10 Metre Pre-Wired
QD	M12 QD
LQD	M12 150mm LQD

About Mechan Controls

Mechan Controls designs and manufactures non-contact safety switches, solenoid locking switches, safety relays and type 4 light curtains for machine guarding applications.

Based in the UK, Mechan Controls produced its first electronic RFID safety switch in 1972, and subsequently, it has developed an enviable reputation as the industry leader. Today, tens of thousands of applications worldwide attest to the outstanding reliability of Mechan safety switches and safety interlock systems.

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