Proximity Magnetic Sensors
Rectangular Housing
M and MS Series

- **Rectangular plastic housing**
- **NO, NC or CO output functions**
- **Small dimensions**
- **Miniaturized reed contacts**
- **Version suited for entries control applications**
- **Suitable magnetic units are to be ordered separately, except for MSA1 (supplied together with CL2)**

Product Description

The magnetic sensors M and MS series use miniaturized reed contacts.
The output function can be NO (Normally Open), NC (Normally Closed) or CO (Change-over).
The sensor MSA1 has the peculiarity to detect the cut of the cable; it can be used to control entries.
The magnetic units are to be ordered separately except for MSA1 (supplied together with CL2).

Ordering Key

MS A 1

Type
Output function
Reed contact type

Type Selection

Housing dimensions	Connection	Output function	Reference
37 x 16 x 8.3	PVC cable L= 2m	NO	**MS A 1** (CL2 magnetic unit included)
37 x 16 x 8.3	PVC cable L= 0.5m	NO	**M A 3** (magnetic unit not included)
37 x 16 x 8.3	PVC cable L= 0.5m	NC	**M C 3** (magnetic unit not included)
37 x 16 x 8.3	PVC cable L= 0.5m	CO	**M S 1** (magnetic unit not included)

Dimensions are specified in millimeters (mm)

Output Specifications

Output	
MSA1, MA3	NO
MC3	NC
MS1	Change-over
Cable breaking detection	
MSA1	Yes
MA3, MC3, MS1	No
Contact ratings	
Max Switching Voltage	
MSA1	230 VAC
MA3, MC3	500 VAC
MS1	100 VAC
Max Switching Current	
MSA1	0.75 A
MA3, MC3	0.5 A
MS1	0.25 A
Max Switching Power	
MSA1	10 VA
MA3, MC3	10 VA
MS1	5 VA

General Specifications

Operating distance	See Operating Distance table
Suitable magnetic unit	See Operating Distance table
Operating temperature	-25 to +75 °C
Degree of protection	IP 67
Housing	
Dimensions	37 x 16 x 8.3 mm
Material	Plastic
CE-marking	Yes

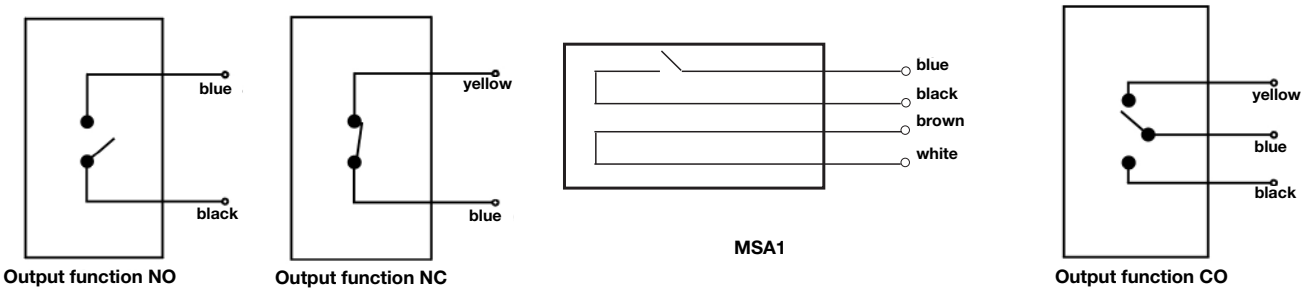
Operating Distance

Magnetic Units	CL1	CL2	CL3	CL4
MSA1 [1], MA3, MS1	10	15	22	35
MC3	7/2*	13/5*	17/7*	30/15*

Distances are specified in millimeters (mm)
xx/xx: operating distance (for all Output functions); xx/**xx***: reswitching contact distance.
Outside the above mentioned range, the sensor mantains the initial state.

[1] MSA1 is already supplied together with CL2

Wiring Diagrams



Dimensions