## Safety magnetic sensors Rectangular safety magnetic sensors SMS01, SMS02

**CARLO GAVAZZI** 



- Safety Category 4 according to EN 954-1
- 1NO + 1NC outputs
- Cable output connection
- Rectangular housing
- Multiple Flux coding

Other features -

- LED indication (SMS02LD only)
- Series resistor on NO contact (SMS02S1 only)

#### **Product Description**

The safety magnetic sensors are particularly addressed to the safety gates that allow the entry to machines with dangerous movements and their risk category can be 4 (EN 954-1). They are provided

with two contacts, 1 NO  $\pm$  1 NC.

The SMS02S1 model has a series resistor on NO contact to avoid read welding problems. The SMS02LD model has a LED for signalling.

# Ordering Key SMS 02 LD Safety Magnetic sensor Contact Type

#### **Type Selection**

Output	Operating distance	LED indication	Item code	Item code (UL)
1 NO + 1 NC	10 mm	No	SMS 01	SMS AP 11 AA 02M
1 NO + 1 NC	20 mm	No	SMS 02	<b>SMS AP 11 AB 02M</b>
1 NO + 1 NC	20 mm	Yes	SMS 02 LD	SMS AP 11 AC 02M
1 NO + 1 NC	20 mm	No	SMS 02 S1	<b>SMS AP 11 AE 02M</b>

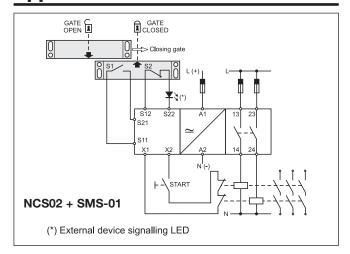
### **Output Specifications**

Output Specifications			
Output	Category 4 (EN 954-1) 1 NO + 1 NC		
Output connection	Cable (PVC, AWG 26,L=2m 4x0.15 mm²)		
Contact ratings Max Switching Voltage Max Switching Current Max Switching Power	100 VAC 0.25 A 5 VA		
Series resistor (NO contact) SMS02S1	R = 39 $\Omega$ , 2 W		

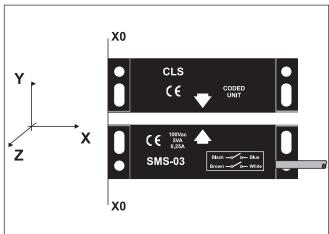
### **General Specifications**

Operating distance ON SMS01 only	10 ± 3 mm 20 ± 3 mm			
Release distance OFF SMS01 only	15 ± 3 mm 30 ± 5 mm			
Reset distance SMS01 only	20 ± 3 mm 35 ± 5 mm			
Suitable magnetic unit	CLS			
Misalignment	max ± 4 mm			
Housing Dimensions Material	88 x 25 x 13 mm Plastic			
Weight	Approx. 70 g			
Environment Degree of protection Operating temperature Storage temperature	IP 67 -25 to +70 °C -25 to +70 °C			
Indication for Gate open (SMS02LD)	LED, red			

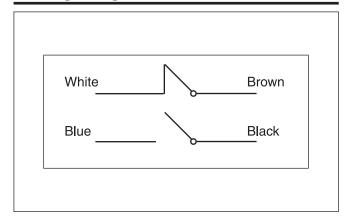
# **Application**



# **Operating directions**



## **Wiring Diagrams**



#### **Dimensions**

