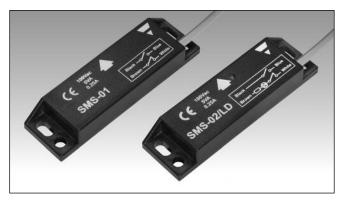
## Safety Magnetic Sensors Rectangular Safety Magnetic Sensors Types SMS01, SMS02





- Suitable for applications in safety category 4 in accordance with EN ISO13849-1:2008 when connected to appropriate safety devices
- 1 NO + 1 NC outputs
- Cable output connection
- · Rectangular housing
- Multiple Flux coding
- 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. SMS, when connected to appropriate safety devices, can be in safety category 4 in accordance with EN

ISO13849-1:2008. They are provided with two contacts, 1 NO + 1 NC. The SMS02S1 model has a series resistor on NO contact to avoid reed welding problems. The SMS02LD model has a LED for signalling.

#### **Ordering Key**

**SMS 02 LD** 

Safety magnetic sensor	
Contact type ————	
Other features —	

#### **Type Selection**

Outputs	Operating distance	LED indication	Item code (CE)	Item code (CE, 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	
1 NO + 1 NC	20 mm	No	SMS 02 S1	

### **Output Specifications**

Outputs	Category 4 (EN ISO13849-1:2008) 1 NO + 1 NC	Contact ratings (UL versions only) Rating AC	
Output connection SMS01, SMS02xx SMSAP11xx02M	Cable Cable (PVC, AWG26, L= 2m 4 X 0,15 mm²) Cable (PVC, AWG24,	Max. switching Voltage Max. switching Current Max. switching Power Rating DC	120 VAC 0.1 A g.p. 12 VA
Contact ratings (CE versions only)	L= 2m 4 X 0,15 mm <sup>2</sup> )	Max. switching Voltage Max. switching Current Max. switching Power	50 VDC 0.25 A 12.5 W
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**

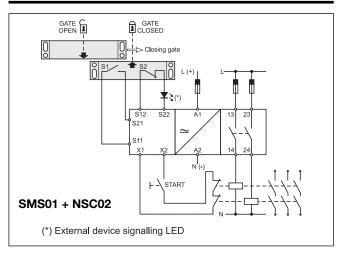
Operating distance ON SMS01, SMSAP11AA02M	10 ± 3 mm	Suitable magnetic unit	CLS CLSD88PM0 (cULus listed)
SMS02xx, SMSAP11AB02M	20 ± 3 mm	Misalignment	max ± 4 mm
Release distance OFF SMS01, SMSAP11AA02M SMS02xx, SMSAP11AB02M	15 ± 3 mm 30 ± 5 mm	Housing Dimensions Material SMS01, SMS02xx	88 x 25 x 13 mm ABS
Reset distance		SMSAP11xx02M	
SMS01, SMSAP11AA02M SMS02xx, SMSAP11AB02M	20 ± 3 mm 35 ± 5 mm	Weight	Approx. 70 g



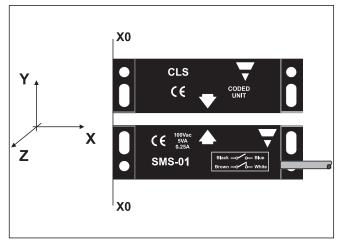
# **General Specifications (cont.)**

Environment Degree of protection Operating temperature Storage temperature	IP 67 -25 to +70 °C -25 to +70 °C	Approvals SMSAP11xx02M CE-marking	cULus listed (UL508) Yes
Indication for Gate open (SMS02LD)	LED, red		

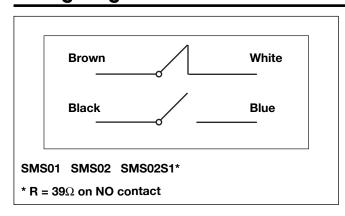
## **Application**

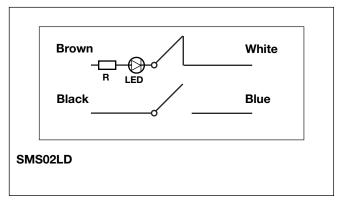


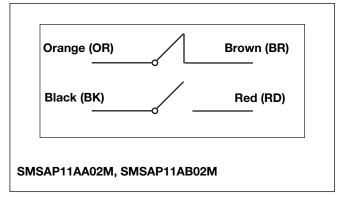
# **Operating Directions**



### **Wiring Diagrams**









## **Dimensions**

