

Safety magnetic sensors

Rectangular safety magnetic sensors

SMS01, SMS02



- Safety Category 4 according to EN 954-1
- 1NO + 1NC 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 and their risk category can be 4 (EN 954-1). They are provided with two contacts, 1 NO + 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 _____
 Other features _____

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 | SMS AP 11 AB 02M |
| 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 | SMS AP 11 AE 02M |

Output Specifications

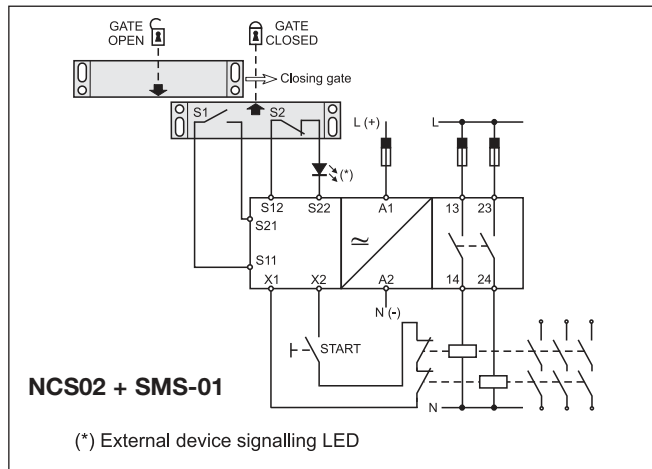
| | |
|------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Output | Category 4 (EN 954-1) 1 NO + 1 NC |
| Output connection | Cable (PVC, AWG 26, L=2m 4x0.15 mm ²) |
| Contact ratings | Max Switching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

General Specifications

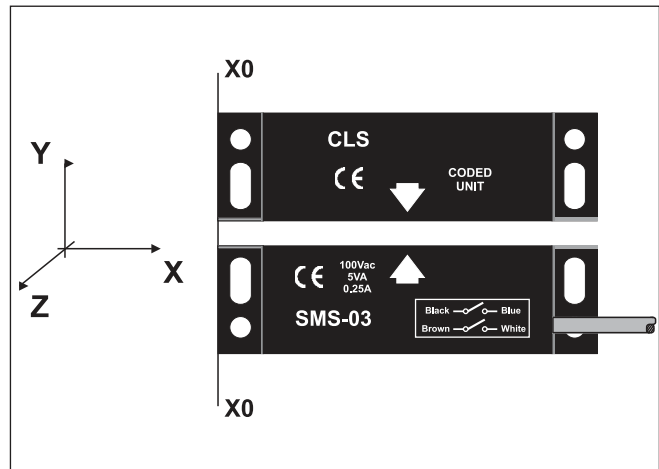
| | |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Operating distance ON SMS01 only | 10 ± 3 mm 20 ± 3 mm |
| Release distance OFF SMS01 only | 15 ± 3 mm 30 ± 5 mm |
| Reset distance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



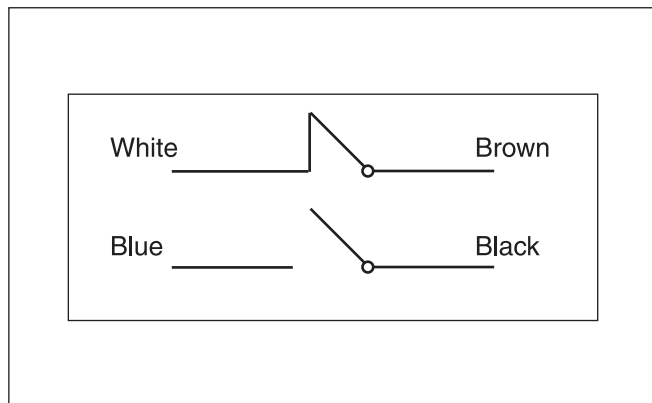
Application



Operating directions



Wiring Diagrams



Dimensions

