

Safety magnetic sensors

Rectangular safety magnetic sensors

SMS03

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- Safety category 4 according to EN 954-1
- 2 NO outputs
- 1 NC auxiliary output (SMS03NC only)
- Cable or M12 pig tail output connection (SMS03+CM1A4/03MT only)
- Rectangular housing
- Multiple flux coding

Product Description

The SMS03 series of safety magnetic sensors is characterized by multiple flux coding with 2 NO safety outputs. The SMS03+CM1A4/03MT model is provided

with a pig tail output connection ended with a four-pole M12 connector, while the SMS03NC model is provided by 1 auxiliary NC output contact for signalling.

Ordering Key

SMS 03+CM1A4/03MT

Safety magnetic sensor

Contact type

Other features

Cable length

Type Selection

| Output | Auxiliary output | Connection | Item code | Item code (UL) |
|--------|------------------|----------------------|--------------------------|----------------------------|
| 2 NO | - | PVC cable | SMS 03 | SMS AP 20 AF 02M |
| 2 NO | - | M12 4-pole connector | SMS 03+CM1A4/03MT | SMS AP 20 AF 03D CP |
| 2 NO | 1 NC | PVC cable | SMS 03 NC | SMS AP 20 AG 02M |

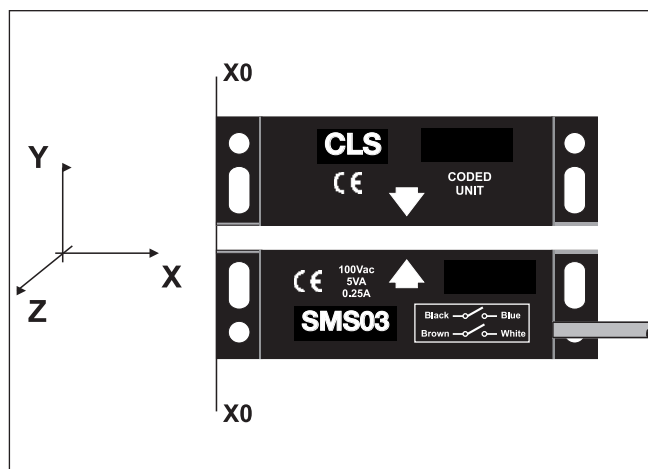
Output Specifications

| | |
|---|--|
| Output | Category 4 (EN 954-1) 2 NO |
| Auxiliary output SMS03NC | 1 NC |
| Output connection SMS03, SMS03NC | Cable (PVC, AWG 26, L=2m 4x0.15 mm ²) |
| SMS03+CM1A4/03MT | Cable L=0.3 m ended with a 4 pole M12 connector |
| Contact ratings Max Switching Voltage Max Switching Current Max Switching Power | 100 VAC 0.25 A 5 VA |

General Specifications

| | |
|--|---|
| Operating distance ON | 20 ± 3 mm |
| Release distance OFF | 22 ± 5 mm |
| Reset distance | 22 ± 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 |

Operating Directions



The diagrams illustrate the wiring configurations for three different modules:

- SMS03:** A module with two terminals. The left terminal is connected to White and Blue wires. The right terminal is connected to Brown and Black wires.
- SMS03NC:** A module with three terminals. The top terminal is connected to White and Brown wires. The middle terminal is connected to Blue and Black wires. The bottom terminal is connected to Blue and Yellow wires, with an additional AUX connection point.
- SMS03+CM1A4/03MT:** A module with four terminals, numbered 1 to 4. The terminals are arranged in a circle. The wiring is as follows:
 - Terminal 1 (top-left) is connected to White.
 - Terminal 2 (top-right) is connected to Brown.
 - Terminal 3 (bottom-right) is connected to Black.
 - Terminal 4 (bottom-left) is connected to Blue.



Dimensions

