

# Safety magnetic sensors

## Rectangular safety magnetic sensors

### SMS03



- 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

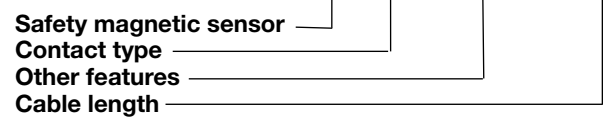
### Product Description

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**



### Type Selection

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

### Output Specifications

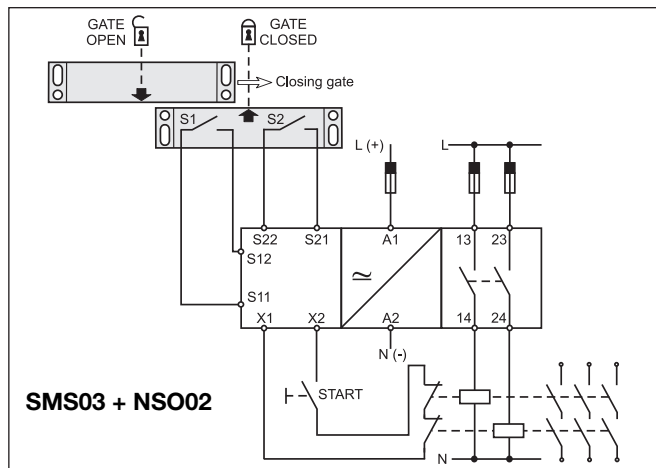
<b>Output</b>	Category 4 (EN 954-1) 2 NO
<b>Auxiliary output</b> SMS03NC	1 NC
<b>Output connection</b> SMS03, SMS03NC	Cable (PVC, AWG 26, L=2m 4x0.15 mm <sup>2</sup> )
SMS03+CM1A4/03MT	Cable L=0.3 m ended with a 4 pole M12 connector
<b>Contact ratings</b> Max Switching Voltage Max Switching Current Max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

### General Specifications

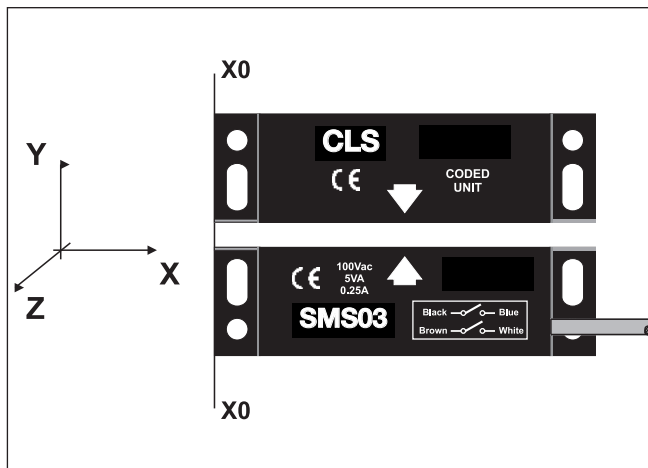
<b>Operating distance ON</b>	20 ± 3 mm
<b>Release distance OFF</b>	22 ± 5 mm
<b>Reset distance</b>	22 ± 5 mm
<b>Suitable magnetic unit</b>	CLS
<b>Misalignment</b>	max± 4 mm
<b>Housing</b> Dimensions Material	88 x 25 x 13 mm Plastic
<b>Weight</b>	Approx. 70 g
<b>Environment</b> Degree of protection Operating temperature Storage temperature	IP 67 -25 to +70 °C -25 to +70 °C



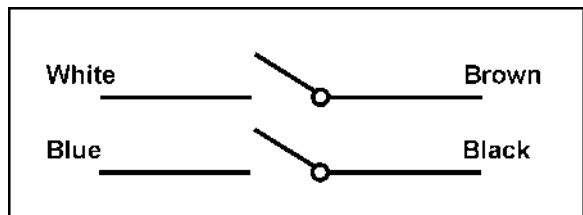
## Application



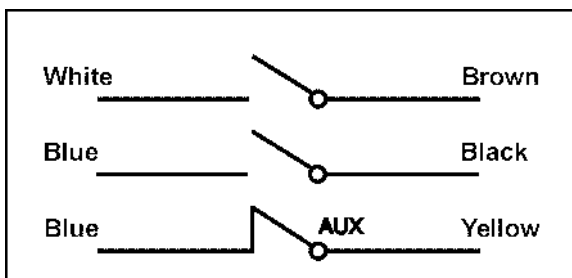
## Operating Directions



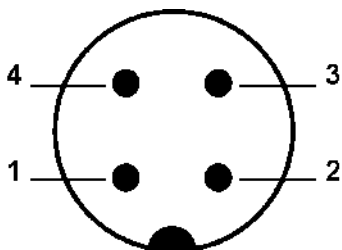
## Wiring Diagrams



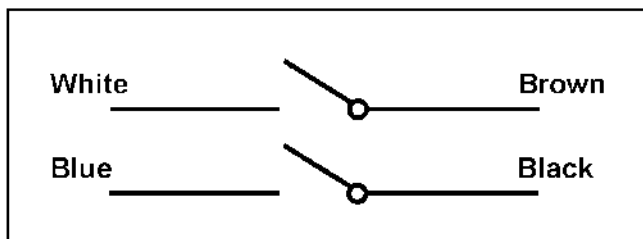
SMS03



SMS03NC



SMS03+CM1A4/03MT



## Dimensions

