

# Safety Magnetic Sensors

## Cylindrical Safety Magnetic Sensors

### Types SMSA2M02, SMSA2M10

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- Suitable for applications in safety category 4 in accordance with EN ISO13849-1:2015 when connected to appropriate safety devices
- 1NO + 1NC outputs (SMSA2M02), 1 NO output (SMSA2M10)
- Cable output connection
- Stainless steel cylindrical housing
- Multiple flux coding
- In compliance with CEI EN 60947-5-3:2000

## Product Description

The SMSA2M series is designed in conformity with EN ISO 12100:2010, EN 60204-1 and EN 1088. It is characterised by stainless steel cylindrical housing, multiple flux coding

and is suited for applications up to safety Category 4 in accordance with EN ISO13849-1:2015 when connected to appropriate safety devices.

## Ordering Key

**SMS A2 M 02**

Safety magnetic sensor

Diameter

Housing material

Contact type

## Type Selection

| Output      | Operating distance | Safety category | Item code         |
|-------------|--------------------|-----------------|-------------------|
| 1 NO + 1 NC | 15 mm              | 4               | <b>SMS A2 M02</b> |
| 1 NO        | 16 mm              | 3               | <b>SMS A2 M10</b> |

## Output Specifications

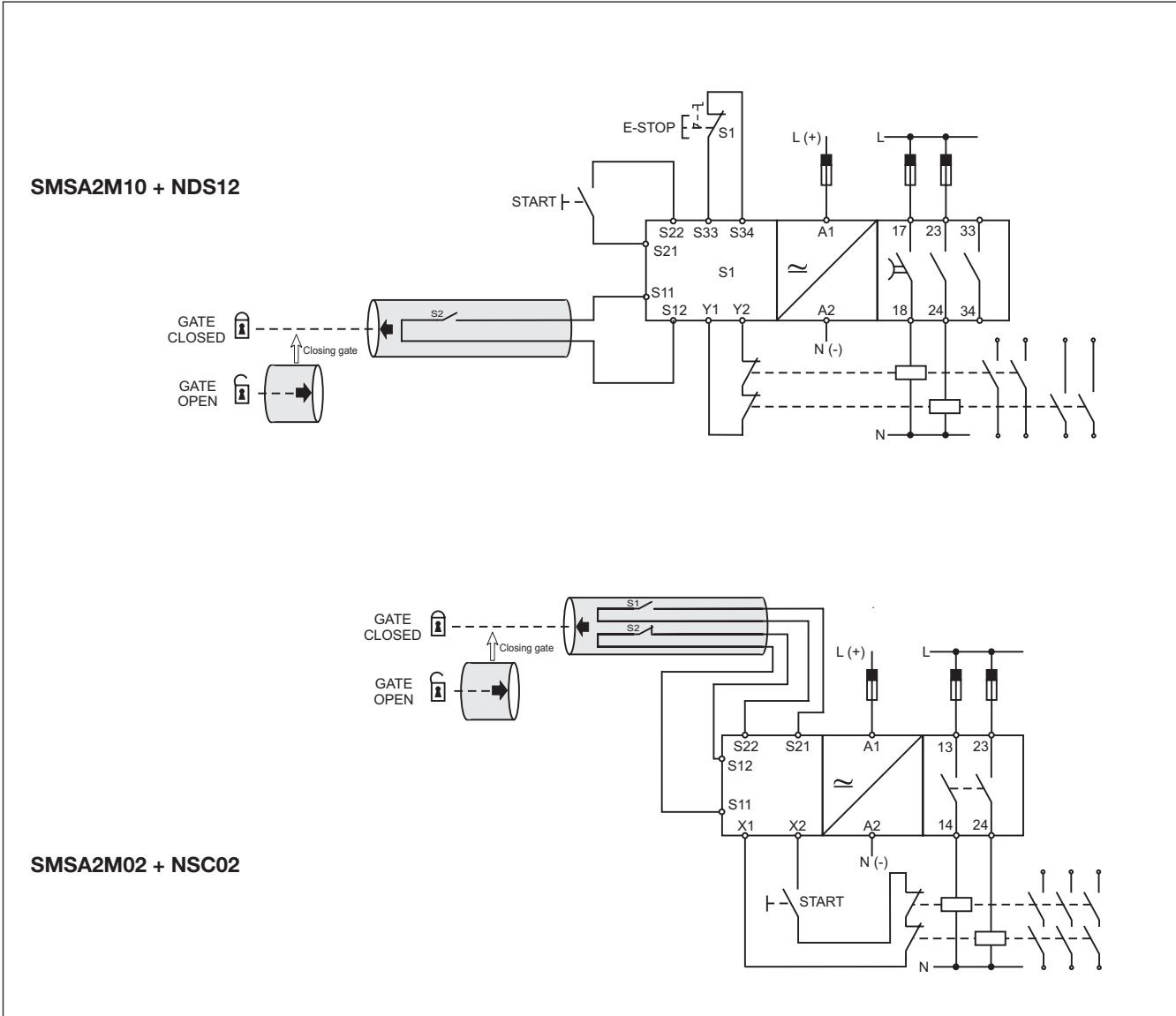
|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| <b>Output</b>            | Category 4<br>(EN ISO13849-1:2015)                         |
| SMSA2M02                 | 1 NO + 1 NC                                                |
| SMSA2M10                 | 1 NO                                                       |
| <b>Output connection</b> |                                                            |
| SMS02M02                 | Cable (PVC, AWG 26,<br>L = 2 m, 4 x 0.15 mm <sup>2</sup> ) |
| SMS02M10                 | Cable (PVC, AWG22,<br>L = 2 m, 2 x 0.35 mm <sup>2</sup> )  |
| <b>Contact ratings</b>   |                                                            |
| Max Switching Voltage    | 100 VAC                                                    |
| Max Switching Current    | 0.25 A                                                     |
| Max Switching Power      | 5 VA                                                       |

## General Specifications

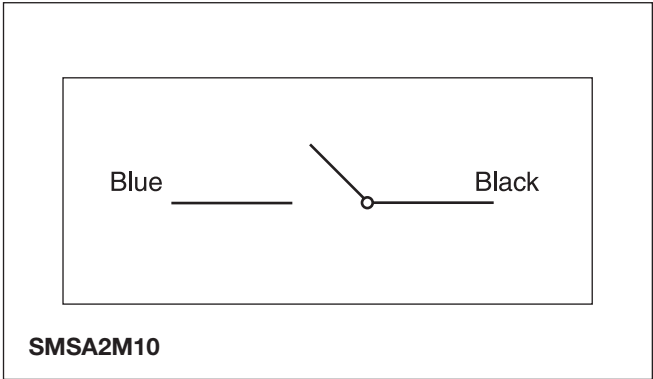
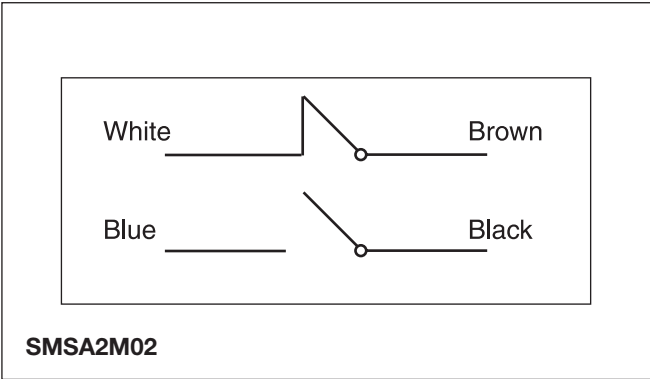
|                               |                          |
|-------------------------------|--------------------------|
| <b>Operating distance ON</b>  |                          |
| SMSA2M02                      | 15 ± 4 mm                |
| SMSA2M10                      | 16 ± 4 mm                |
| <b>Release distance OFF</b>   | 20 ± 6 mm                |
| <b>Reset distance</b>         | 25 ± 7 mm (SMSA2M02)     |
| <b>Suitable magnetic unit</b> | CLSA2M                   |
| <b>Misalignment</b>           | Max ± 4 mm               |
| <b>Housing</b>                |                          |
| Dimensions                    | M18x1                    |
| Material                      | Stainless steel AISI 316 |
| <b>Weight</b>                 | Approx. 70 g             |
| <b>Environment</b>            |                          |
| Degree of protection          | IP 67                    |
| Operating temperature         | -25 ÷ +70 °C             |
| Storage temperature           | -25 ÷ +70 °C             |
| <b>CE-marking</b>             | Yes                      |



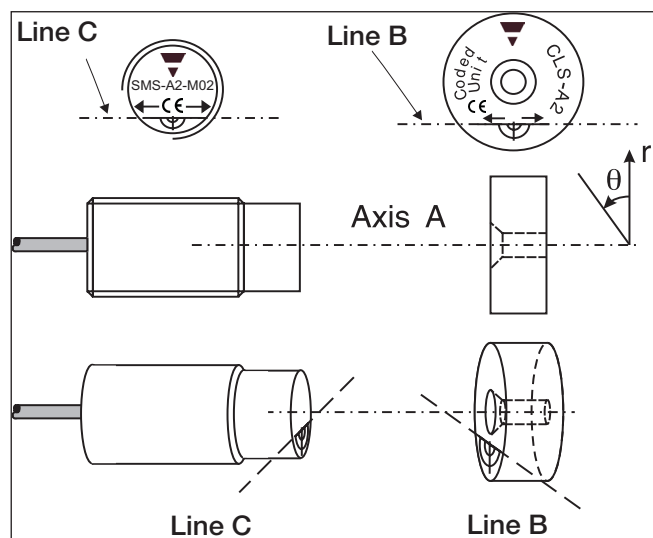
Application



Wiring Diagrams



## Operating Directions



## Dimensions

