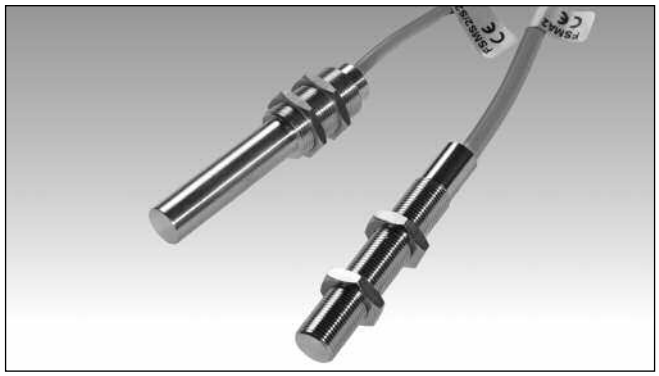
# Proximity Magnetic Sensors
# Cylindrical Housing
# FSM Series

CARLO GAVAZZI



- **Cylindrical, brass or nickel plated brass housing**
- **M12 or M16 diameter**
- **NO or CO output functions**
- **Front side switching**

## Product Description

The cylindrical proximity magnetic sensors of the FSM series are available in different versions with brass or nickel-plated brass housing, different dimensions and output contacts. They can be mounted directly on ferromagnetic supports as well; in this situation a reduction in the operating distance may occur due to a loss of magnetic field. FSMA7 model is provided with output function status LED, while FSMS2S2AT can resist to temperature up to 150 °C.

## Ordering Key

**FSM S 2 S2 AT**

**Type**
**Output function**
**Reed contact type**
**Special version**
**Special applications**

## Type Selection

| Housing diameter | Connection | Output function | Reference |
|---|---|---|---|
| M12 | PVC cable L= 2m | NO | **FSM A 2** |
| M12 | Silicone cable L= 2m | NO | **FSM A 7** |
| M12 | PVC cable L= 2m | CO | **FSM S 2** |
| M16 | Silicone cable L= 0.5m | CO | **FSM S 2 S2 AT** |

**Diameters are specified in millimeters (mm)**

## Output Specifications

| | |
|---|---|
| **Output** | |
| FSMA2, FSMA7 | NO |
| FSMS2,FSMS2S2AT | Change-over |
| **Contact ratings** | |
| Max Switching Voltage | |
| FSMA2 | 250 VAC |
| FSMA7 | 24 VDC |
| FSMS2, FSMS2S2AT | 230 VAC |
| Max Switching Current | |
| FSMA2 | 3 A |
| FSMA7 | 50 mA |
| FSMS2 | 1 A |
| FSMS2S2AT | 0,5 A |
| Max Switching Power | |
| FSMA2 | 100 VA |
| FSMA7 | negligible |
| FSMS2 | 60 VA |
| FSMS2S2AT | 30 VA |

## General Specifications

| | |
|---|---|
| **Operating distance** | See Operating Distance table |
| **Suitable magnetic unit** | See Operating Distance table |
| **Operating temperature** | |
| FSMA2, FSMA7, FSMS2 | -25 to +75 °C |
| FSMS2S2AT | -20 to +150°C |
| **Degree of protection** | IP 67 |
| **Housing** | |
| Diameter | |
| FSMA2, FSMA7, FSMS2 | M12 x 1 |
| FSMS2S2AT | M16 x 1 |
| Material | |
| FSMA2, FSMA7, FSMS2 | Nickel-plated brass |
| FSMS2S2AT | Brass |
| **CE-marking** | Yes |



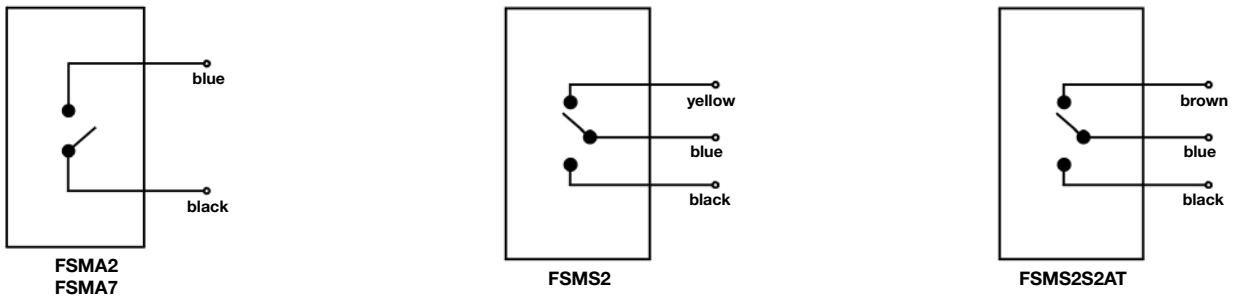
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## Operating Distance

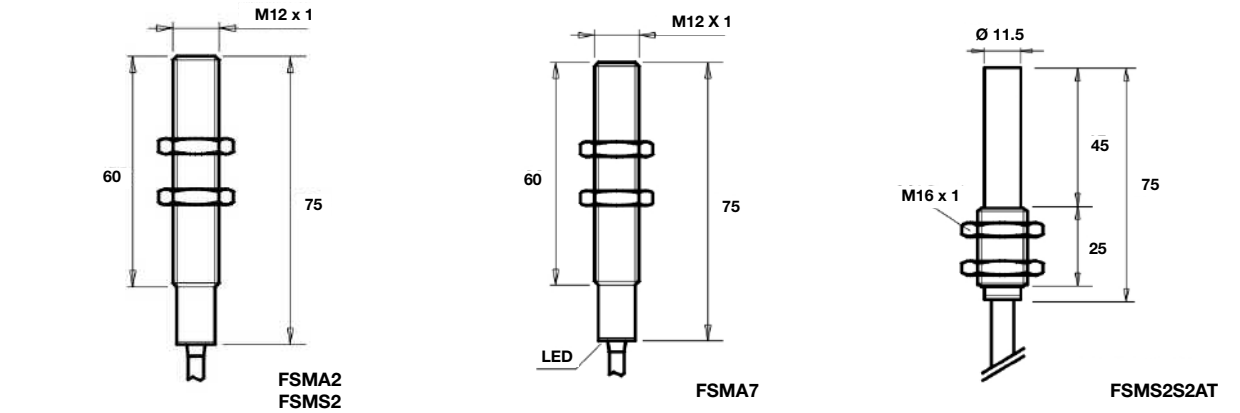
| Magnetic units | CL10 | CL11 | CL18 | CL20S1 | CL20S3 | CL23 | CL31 |
|---|---|---|---|---|---|---|---|
| FSMA2 | - | 16 | 2 | 14 | 13 | 11 | 19 |
| FSMS2 | - | 9 | - | - | - | - | - |
| FSMA7* | - | - | - | - | - | - | - |
| FSMS2S2AT | - | - | - | ≥ 5 | 8 | - | - |

**Distances are specified in millimeters(mm)**
**xx**: operating distance (for all Output functions).
***** ≥7 mm with Neodimium REN 35, 5x5x1.5 mm magnetic unit mounted on iron (ordering code: CL5X5X15)

## Wiring Diagrams




## Dimensions






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