

# Proximity Magnetic Sensors Cylindrical Housing FMP Series

CARLO GAVAZZI



- Cylindrical threaded plastic housing
- M12 diameter
- NO, NC, bistable or CO output functions
- Front side switching

## Product Description

The sensors of the FMP series are housed in a plastic threaded housing. The different versions have NO (Normally Open), NC (Normally Closed), Bistable or CO (Change-over) output contacts. The versions 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. The FMP is provided with two plastic nuts.

## Ordering Key

**FMP A 7 S1**

Type \_\_\_\_\_  
Output function \_\_\_\_\_  
Reed contact type \_\_\_\_\_  
Special version \_\_\_\_\_

## Type Selection

| Housing diameter | Connection      | Output function | Reference         |
|------------------|-----------------|-----------------|-------------------|
| M12              | PVC cable L= 2m | NO              | <b>FMP A 7</b>    |
| M12              | PVC cable L= 2m | NO              | <b>FMP A 9</b>    |
| M12              | PVC cable L= 2m | NO              | <b>FMP A 9 S1</b> |
| M12              | PVC cable L= 2m | NC              | <b>FMP C 7</b>    |
| M12              | PVC cable L= 2m | NC              | <b>FMP C 9</b>    |
| M12              | PVC cable L= 2m | CO              | <b>FMP S 1</b>    |
| M12              | PVC cable L= 2m | Bistable        | <b>FMP B 2</b>    |

Diameters are specified in millimeters (mm)

## Output Specifications

|                                                                                                                                                                                                                                                                                  |                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Output</b><br>FMPA7, FMPA9, FMPA9S1<br>FMPC7, FMPC9<br>FMPS1<br>FMPB2                                                                                                                                                                                                         | NO<br>NC<br>Change-over<br>Bistable                                                                           |
| <b>Contact ratings</b><br>Max Switching Voltage<br>FMPB2<br>FMPA7, FMPC7<br>FMPA9, FMPA9S1, FMPC9<br>FMPS1<br>Max Switching Current<br>FMPB2<br>FMPA7, FMPC7<br>FMPA9, FMPA9S1, FMPC9<br>FMPS1<br>Max Switching Power<br>FMPB2<br>FMPA7, FMPC7<br>FMPA9, FMPA9S1, FMPC9<br>FMPS1 | 250 VAC<br>250 VAC<br>230 VAC<br>100 VAC<br>3 A<br>0.5 A<br>3 A<br>0.25 A<br>120 VA<br>10 VA<br>60 VA<br>5 VA |

## General Specifications

|                                                                    |                              |
|--------------------------------------------------------------------|------------------------------|
| <b>Operating distance</b><br>FMP Series                            | See Operating Distance table |
| <b>Suitable magnetic unit</b><br>FMP Series                        | See Operating Distance table |
| <b>Operating distance</b>                                          | 8 ÷ 27 mm                    |
| <b>Ambient temperature</b><br>Operating                            | -25 to +75 °C                |
| <b>Environment</b><br>Degree of protection                         | IP 67                        |
| <b>Housing</b><br>Diameter<br>FMP Series<br>Material<br>FMP Series | M12 x 1 mm<br>Plastic        |
| <b>CE-marking</b>                                                  | Yes                          |

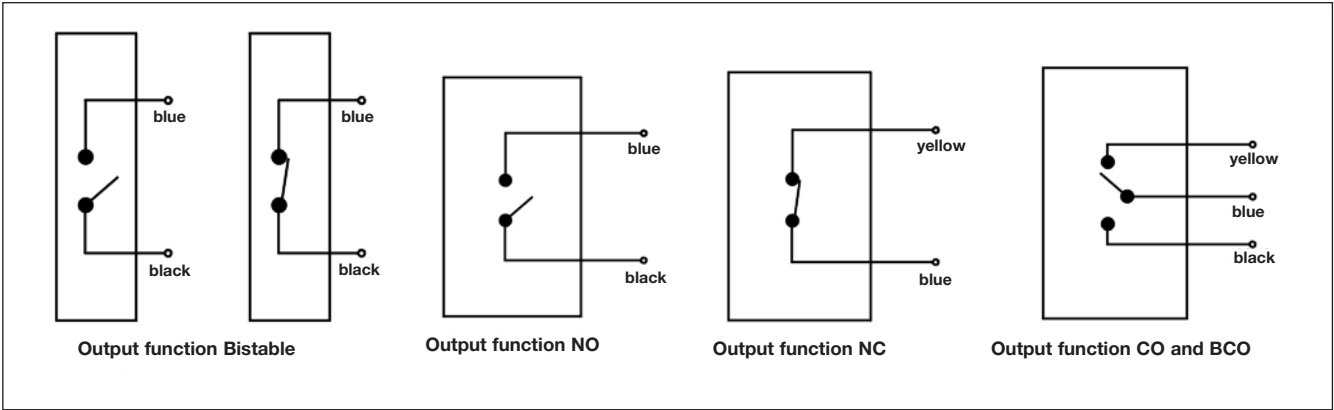


# Operating Distance

| Magnetic Units | CL20S1* |
|----------------|---------|
| FMPA7          | 26      |
| FMPA9          | 7       |
| FMPA9S1        | 17      |
| FMPC7          | 23      |
| FMPC9          | 26      |
| FMPS1          | 20      |

Distances are specified in millimeters (mm)  
xx/xx: operating distance (for all Output functions).  
\*frontal operation.

# Wiring Diagrams



# Dimensions

