Proximity Magnetic Sensors
Cylindrical Housing
FMP Series

CARLO GAVAZZI



- **Cylindrical threaded plastic housing in different colours based on the output function**
- **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 available in different colours based on the output function. The different versions have NO (Normally Open), NC (Normally Closed), Bistable or CO (Change-over) output contacts. All 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 series is provided with two plastic nuts.

Ordering Key

FMP A 7 S1

Type
Output function
Reed contact type
Special version

Type Selection

Housing diameter	Housing colour	Connection	Output function	Reference
M12	Black	PVC cable L= 2m	NO	**FMP A 7**
M12	Black	PVC cable L= 2m	NO	**FMP A 9**
M12	Black	PVC cable L= 2m	NO	**FMP A 9 S1**
M12	Red	PVC cable L= 2m	NC	**FMP C 7**
M12	Red	PVC cable L= 2m	NC	**FMP C 9**
M12	Blue	PVC cable L= 2m	CO	**FMP S 1**
M12	Grey	PVC cable L= 2m	Bistable	**FMP B 2**

Diameters are specified in millimeters (mm)

Output Specifications

Output	
FMPA7, FMPA9, FMPA9S1	NO
FMPC7, FMPC9	NC
FMPS1	Change-over
FMPB2	Bistable
Contact ratings	
Max Switching Voltage	
FMPB2	250 V AC/DC
FMPA7	200 VDC, 140 VAC
FMPA9, FMPA9S1, FMPC9	230 V AC/DC
FMPC7	120 V AC/DC
FMPS1	175 VDC, 120 VAC
Max Switching Current	
FMPB2	3 A
FMPA7	1 A
FMPA9, FMPA9S1, FMPC9	3 A
FMPC7	0.5 A
FMPS1	0.25 A

Contact ratings (cont.)	
Max Switching Power	
FMPB2	120 VA
FMPA7	10 VA
FMPA9, FMPA9S1, FMPC9	60 VA
FMPC7	10 VA
FMPS1	5 VA
Minimum Wetting Current (*)	200 µA

(*) Minimum current required to prevent oxidation between the reed contacts

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General Specifications

Operating distance	See Operating Distance table
Suitable magnetic unit	See Operating Distance table
Operating distance	8 ÷ 27 mm
Operating temperature	-25 to +75 °C
Degree of protection	IP 67
Housing	
Diameter	M12 x 1 mm
Material	Plastic
Colour	
FMPA7, FMPA9, FMPA9S1	Black
FMPC7, FMPC9	Red
FMPS1	Blue
FMPB2	Grey
CE-marking	Yes

Operating Distance

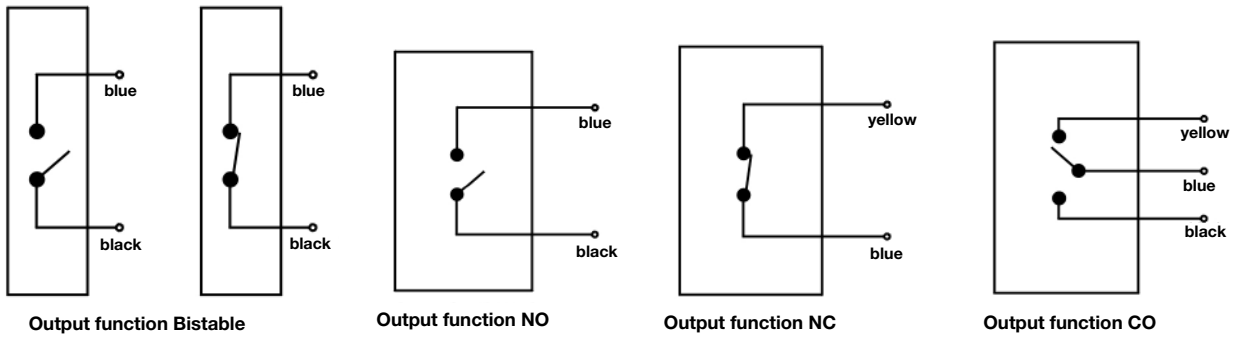
Magnetic Units	**CL20S1***
FMPA7	26
FMPA9	7
FMPA9S1	17
FMPC7	23
FMPC9	26
FMPS1	20
FMPB2	15

Distances are specified in millimeters (mm)

xx/xx: operating distance (for all Output functions).

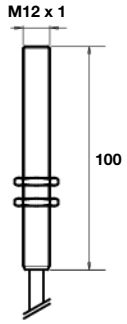
*frontal operation.

Wiring Diagrams



Output function Bistable | Output function NO | Output function NC | Output function CO

Dimensions



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