Proximity Magnetic Sensors
Cylindrical Housing
FM Series

CARLO GAVAZZI



- **Cylindrical and plastic, brass or nickel plated brass housing**
- **M10, M12, Ø 9.3 diameter**
- **NO, NC or CO output functions**
- **Front side switching**

Product Description

The cylindrical proximity magnetic sensors of the FM series are available in different versions with plastic or brass housing, different dimensions and output contacts. The models 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.

Ordering Key

FM C 3 S1

Type
Output function
Reed contact type
Special version

Type Selection

Housing diameter	Connection	Output function	Reference
Ø 9.3	PVC cable L= 0.5m	NO	**FM A 3**
M12	PVC cable L= 2m	NO	**FM A 3 S5**
M10	PVC cable L= 2m	NO	**FM A 6**
M12	PVC cable L= 2m	NO	**FM A 9 S1**
Ø 9.3	PVC cable L= 0.5m	NC	**FM C 3**
M12	PVC cable L= 2m	NC	**FM C 3 S1**
Ø 9.3	PVC cable L= 0.5m	CO	**FM S 1**

Diameters are specified in millimeters (mm)

Output Specifications

Output	
FMA3, FMA3S5, FMA6, FMA9S1	NO
FMC3, FMC3S1	NC
FMS1	Change-over
Contact ratings	
Max Switching Voltage	
FMA3, FMA3S5, FMC3, FMC3S1	500 VAC
FMS1	100 VAC
FMA6	100 VAC
FMA9S1	230 VAC/DC
Max Switching Current	
FMA3, FMA3S5, FMC3, FMC3S1	0.5 A
FMS1	0.25 A
FMA6	0.5 A
FMA9S1	3 A
Max Switching Power	
FMA3, FMA3S5, FMC3, FMC3S1	5 VA
FMS1	100 VA
FMA6	100 VA
FMA9S1	60 VA

General Specifications

Operating distance	See Operating Distance table
Suitable magnetic unit	See Operating Distance table
Operating temperature	-25 to +70 °C
Degree of protection	IP 67
Housing	
Diameter	
FMA3, FMC3, FMS1	Ø 9.3 mm
FMA3S5, FMC3S1, FMA9S1	M12 x 1 mm
FMA6	M10 x 0.75 mm
Material	
FMA3, FMC3, FMS1	Plastic
FMA6	Nickel plated brass
FMA3S5, FMC3S1, FMA9S1	Brass
CE-marking	Yes

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Operating Distance

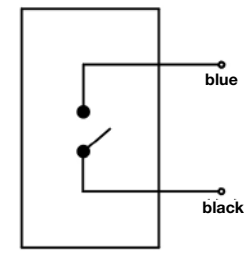
Magnetic Units	CL10	CL11	CL18	CL20S1	CL20S3	CL23	CL31
FMA3, FMS1	11	25	9	20	19	15	25
FMA6	16	36	15	30	28	23	33
FMA9S1	-	-	-	-	20	-	-
FMC3	8	20/4*	7	17/2*	16/1*	12/0.5*	20/4*
FMA3S5	9	23	7	18	17	13	23
FMC3S1	6	18/2*	5	15/2*	14/1*	10/1*	18/2*

Distances are specified in millimeters (mm)

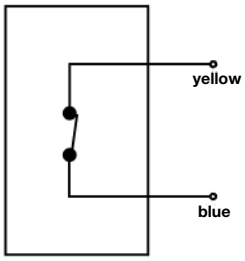
xx/xx: operating distance (for all Output functions); xx/**xx***: reswitching contact distance.

Outside the above mentioned range, the sensor mantains the initial state.

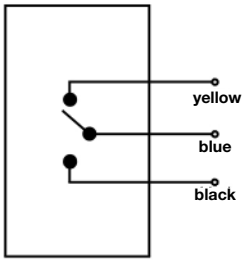
Wiring Diagrams



Output function NO

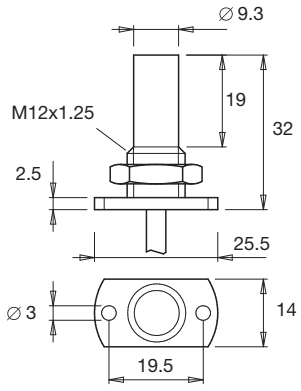


Output function NC

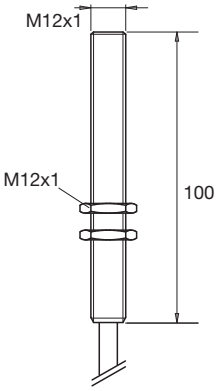


Output function CO

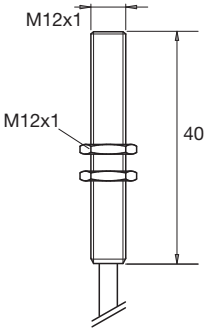
Dimensions



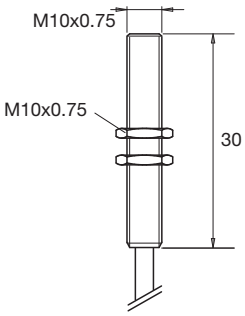
FMS1 FMA3 FMC3



FMA3S5 FMC3S1



FMA9S1



FMA6

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