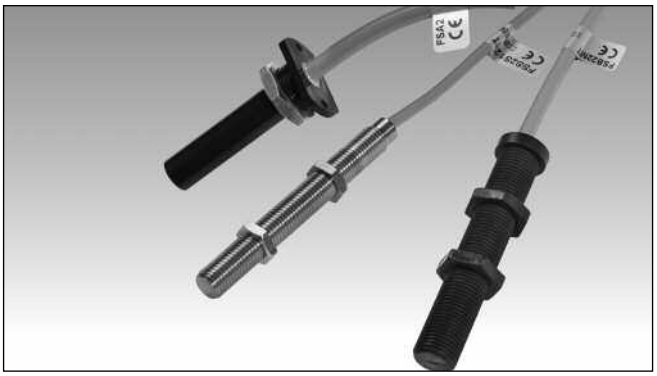
Proximity Magnetic Sensors
Cylindrical Housing
FS Series

CARLO GAVAZZI



- **Cylindrical, plastic or brass housing**
- **M10, M12, M16 or Ø 13.5 diameter**
- **NO, NC, CO or bistable output functions**
- **Front side switching**

Product Description

The sensors of the FS series have different dimensions and output contacts with output connection in PVC cable. They are available in several versions with plastic or brass housing.

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

FS A 2 S3 2MT

Type
Output function
Reed contact type
Special version
Cable length

Type Selection

Housing diameter	Connection	Output function	Reference
Ø 13.5	PVC cable L= 0.5m	NO	**FS A 2**
Ø 13.5	PVC cable L= 0.5m	NO	**FS A 8**
Ø 13.5	PVC cable L= 0.5m	NC	**FS C 2**
Ø 13.5	PVC cable L= 0.5m	NC	**FS C 8**
Ø 13.5	PVC cable L= 0.5m	CO	**FS S 2**
M10	PVC cable L= 2 m	NO	**FS A 2 S3 2MT**
M10	PVC cable L= 2 m	CO	**FS S 2 S1 2MT**
M12	PVC cable L= 2 m	NO	**FS A 2 S4 2MT**
M12	PVC cable L= 2 m	CO	**FS S 2 S4 2MT**
M16	PVC cable L= 2 m	Bistable	**FS B 2 2MT**

Diameters are specified in millimeters (mm)

Output Specifications

Output	
FSA2, FSA8, FSA2S32MT, FSA2S42MT	NO
FSC2, FSC8	NC
FSS2, FSS2S12MT, FSS2S42MT	Change-over
FSB22MT	Bistable
Contact ratings	
Max Switching Voltage	
FSA2, FSC2, FSB22MT, FSA2S32MT, FSA2S42MT	250 VAC
FSA8, FSC8	1500 VAC
FSS2, FSS2S42MT, FSS2S12MT	230 VAC
Max Switching Current	
FSA2, FSC2, FSB22MT, FSA2S32MT, FSA2S42MT	3 A
FSA8, FSC8	3 A
FSS2, FSS2S42MT, FSS2S12MT	1 A
Contact ratings (cont.)	
Max Switching Power	
FSA2, FSC2, FSB22MT, FSA2S32MT, FSA2S42MT	100 VA
FSA8, FSC8	120 VA
FSS2, FSS2S42MT, FSS2S12MT	60 VA

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General Specifications

Operating distance	See Operating Distance table
Suitable magnetic unit	See Operating Distance table
Operating temperature	-25 to +75 °C
Degree of protection	IP 67

Housing	
Diameter	
FSA2, FSA8, FSC2, FSC8, FSS2	Ø 13.5 mm
FSA2S32MT, FSS2S12MT	M10 x 1.25 mm
FSA2S42MT, FSS2S42MT	M12 x 1 mm
FSB22MT	M16 x 1.5 mm
Material	
FSA2, FSA8, FSC2, FSC8, FSS2, FSB22MT	Plastic
FSA2S32MT, FSS2S12MT, FSA2S42MT, FSS2S42MT	Brass
CE-marking	Yes

Operating Distance

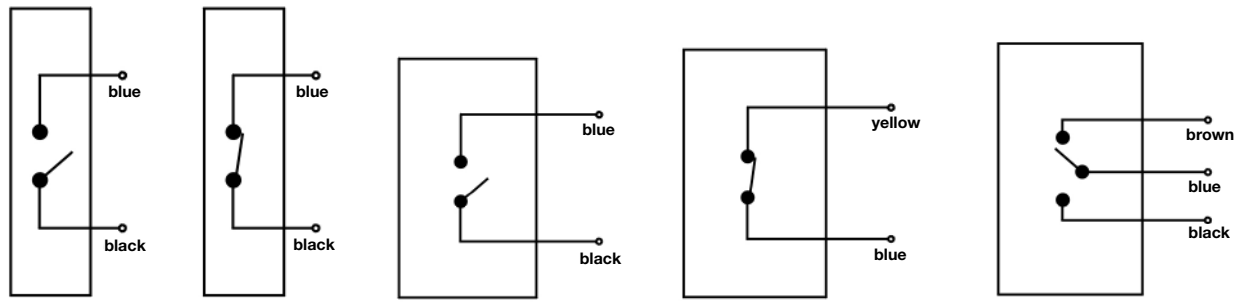
Magnetic units	CL10	CL11	CL18	CL20S1	CL20S3	CL23	CL31
FSA2, FSA8, FSS2	-	9	-	8	7	7	12
FSC2, FSC8	-	12/0.5*	-	7	6	3	12/0.5*
FSA2S32MT, FSS2S12MT, FSA2S42MT, FSS2S42MT	-	9	-	8	7	7	12
FSB22MT	11	30	11	29	27	20	32

Distances are specified in millimeters (mm)

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

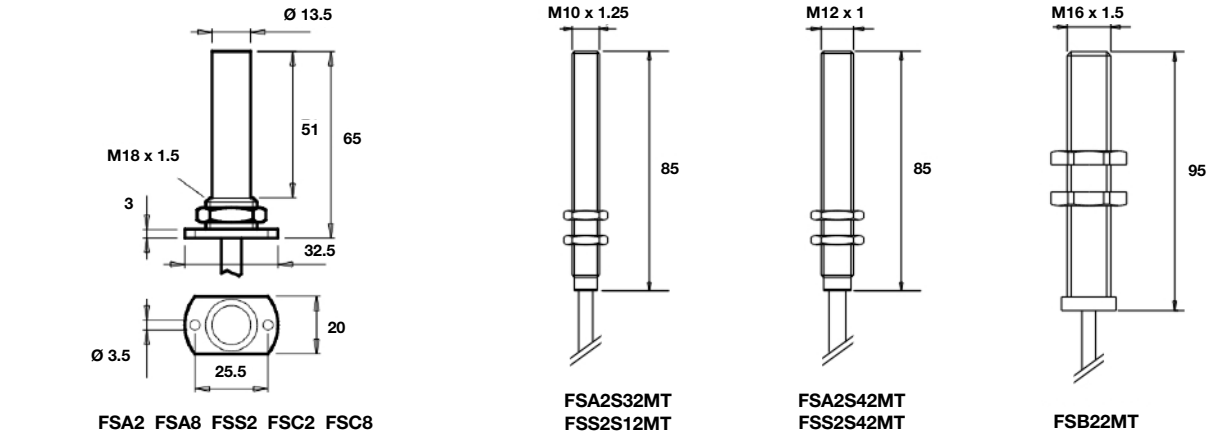
Outside the above mentioned range, the sensor mantains the initial state

Wiring Diagrams



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

Dimensions



FSA2 FSA8 FSS2 FSC2 FSC8 | FSA2S32MT FSS2S12MT | FSA2S42MT FSS2S42MT | FSB22MT

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