



Types

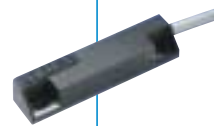
S series



SPB.2 series



SPA.1 series



External Dimensions (mm)

21.2 x 11.5 x 79

24 x 25.5 x 85

16 x 90 x 20

References

Output -Normally open
Function -Normal. closed
-Change-over
-Bistable
-Bistable CO

S.A.2 S.A.8
S.C.2 S.C.8
S.S.2
S.B.2 S.B.2/S5
S.BS.2

Output -Faston
Connection -Cable
GND Connection
-Within the output cable
-Thin plate fixed on the case

SP.B.2
SP.B.2/2MT

SPA.1/S2
SPA.1/S3

Electrical Character.

Max. switch. voltage contact
Max. switch. current contact
Max. switch. power contact
Power supply
Output 1 / Output 2

220 - 1500 V
1 - 3 A
60 - 120 VA

250 V
3 A
100 VA

24 VDC
Max. 5VA-0.5 A / Max. 100VA-4 A

General Character.

Operating distance / Case
Prot. degree / Operat. temp.
Output connection
Output function
Output function E1 / E2

8 - 32 mm / Plastic
IP 67 / -25°C to +75°C
PVC cable

5 - 30 mm / Plastic
IP 67 or IP 65 / -25°C to +75°C

12 mm / ABS class V0
IP 67 / -25°C to +80°C
PVC cable

Bistable

NC

Types

M and MS series



MM series



Output function

NO

Cable break. detection	EX applicat. addressed	REFERENCES
Yes	-	M.A.1
-	-	M.A.3
-	Yes	M.A.1/2MT
NC	Yes	M.C.1/2MT
-	-	M.C.3
S	-	M.S.1

External dimensions	Output connection	REFERENCES
14x23.5x6.1	Twin lead cable	MM.A.6
7x27x11	PVC cable	MM.A.3
-	-	-
-	-	-
7x27x11	PVC cable	MM.S.1

Electrical Characterist.

Contact

Max. swit. voltage 100 - 500 V
Max. swit. current 0.25 - 0.75 A
Max. swit. power 5 - 10 VA

Max. swit. voltage 100 - 500 V
Max. swit. current 0.25 - 1 A
Max. swit. power 5 - 10 VA



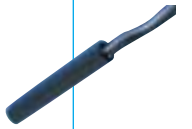

General Characterist.



External dimensions (mm.)
Operating distance
Output connection
Protection degree
Operating temperature
Case

8.3 x 37 x 16
7 - 35 mm.
PVC cable
IP 67
-25° to +80°C
-10° to +80°C **M.A.1/2MT M.C.1/2MT**
Plastic or Auto extinguishing polipropylene with 30% fiber glass

See references
10 - 50 mm.
See references
IP 67
-25° to +75°C
Plastic



Types	FM.. series	FMM.. series	FMMP.. series	FMP.. series
				
External Dimensions (mm)	Ø 9.3 M12 x 1	M 8 x 1	Ø 6	M 12 x 1
Output Function				
Normally Open	FM.A.3 FM.A.3/S5	FMM.A.3	FMMP.A.7	FMP.A.7 FMP.A.9
Normally Closed	FM.C.3 FM.C.3/S1			FMP.C.7
Change-over	FM.S.1	FMM.S.1		FMP.S.1
Bistable				FMP.B.2
Electrical Characteristics				
Max. switch. voltage contact	100 - 500 V	100 - 500 V	100 V	100 - 250 V
Max. switch. current contact	0.25 - 0.5 A	0.25 - 0.5 mA	0.4 A	0.25 - 3 A
Max. switch. power contact	5 - 10 VA	5 - 10 VA	10 VA	5 - 120 VA
Max. carry current			0.75 A	
General Characteristics				
Output connection	PVC Cable	PVC Cable	Twin-lead Cable	PVC Cable
Operating distance	5 - 25 mm.	8 - 27 mm.	>8 mm.	
Degree of protection	IP 67	IP 67	IP 67	IP 67
Operating temperature	-25°C to +75°C	-25°C to +70°C	-20°C to +75°C	-25°C to +75°C
Case	Plastic / Brass	Stainless steel	Plastic	Plastic

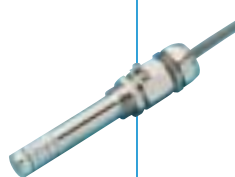
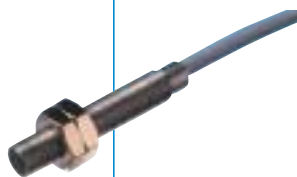
Types	FS... series	FSLP.. series				
						
Output function	External dimensions	REFERENCES	External dimensions	Ø 16 X 110 mm		
Normally Open	Ø 13.5 mm	FS.A.2 / FS.A.8	Operating pole	REFERENCES		
Normally Closed	Ø 13.5 mm	FS.C.2 / FS.C.8	N and S	FSLP.A.7		
Change-over	Ø 13.5 mm	FS.S.2	Contact closed by N	FSLP.B.2		
Normally Open	M10 x 1.25	FS.A.2/S3/2MT	Contact opened by S	FSLP.B.2		
Change-over	M10 x 1.25	FS.S.2/S1/2MT				
Normally Open	M12 x 1	FS.A.2/S4/2MT				
Change-over	M12 x 1	FS.S.2/S4/2MT				
Bistable	M16 x 1.5	FS.B.2/2MT				
Electrical Character.	Max swit. voltage	Max swit. current	Max swit. power	Max swit. voltage	Max swit. current	Max swit. power
Contact	220 - 1500 V	1 - 3 A	10- 120 VA	100 ÷ 250 V	0.4 ÷ 3 A	10 ÷ 120 VA
General Characterist.	Output connection	PVC Cable	Output connection	PVC Cable		
Operating distance	3 - 12 mm		Operating distance	18 ÷ 25 mm (front); 10 ÷ 15 mm (side)		
Protection degree	IP 67		Protection degree	IP 67		
Operating temperature	-25° to +75°C		Operating temperature	-30° ÷ +80°C		
Case	Plastic		Case	Plastic		
Modular Guide External Dimensions			Modular Guide External Dimensions	20 x 200 x 10 mm		



Types

FSM... series

FSQ... series



Output Function

Normally Open

Dimensions	REFERENCES
M12 x 1	FSM.A.2
M12 x 1	FSM.A.7

External dimensions	REFERENCES
M12 x 1	FSQ.A.3/A01/2MT/HF
PG 13.5	FSQ.A.2/B03/2MT/HF/C
PG 13.5	FSQ.A.2/B01/1MT/C
PG 13.5	FSQ.A.2/B04/1MT/C

Change-over

M12 x 1	FSM.S.2
M16 x 1	FSM.S.2/S2
M16 x 1	FSM.S.2/S2AT

Electrical Character.

Max. switch. voltage contact
Max. switch. current contact
Max. switch. power contact

220 - 500 V
0.05 ÷ 3 A
50 - 100 VA

250 - 500 V
0.5 - 3 A
10 - 100 VA

General Characterist.

Output connection
Halogen free cable

REFERENCES
Silicone / PVC Cable

REFERENCES
FSQ.A.3/A01/2MT/HF FSQ.A.2/B03/2MT/HF/C FSQ.A.2/B01/1MT/C FSQ.A.2/B04/1MT/C

Silicon cable with metallic sheath

Operating distance

Protection degree

Operating temperature

Case

7 - 23 mm.
IP 67
-25° to +75°C
Brass - Nickel plated brass

7 - 30 mm.
IP 67
-25° to +75°C
Stainless steel: FSQ.A.3/A01/2MT/HF AISI 303 Stainless steel: FSQ.A.2/B03/2MT/HF/C FSQ.A.2/B01/1MT/C FSQ.A.2/B04/1MT/C

High temp. applications
Explosive Environm. appl.

FSM.S.2/S2AT

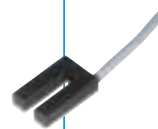
FSQ.A.2/B03/2MT/HF/C FSQ.A.2/B01/1MT/C FSQ.A.2/B04/1MT/C

Types

I. series

ISY. series

IM. series



Dimensions-external (mm)

75 x 50.7 x 40 mm

45 x 37 x 10 mm

28 x 18.5 x 7 mm

Output connection

Normally open

Normal. closed

Change-over

I.A.2 I.A.8
I.C.2 I.C.8
I.S.2

ISY.C.3
ISY.S.1

IM.C.3
IM.S.1

Electrical Character.

Max. switch. voltage contact
Max. switch. current contact
Max. switch. power contact

220 - 1500 V
1 - 3 A
60 - 120 VA

230 - 500 V
0.75 - 0.5 A
5 - 10 VA

230 - 500 V
0.75 - 0.5 A
5 - 10 VA

General Character.

Output connection

Protection degree

Operating temperature

Case

PVC Cable
IP 67
-25°C to +75°C
Plastic

PVC Cable
IP 67
-25°C to +75°C
Plastic

PVC Cable
IP 67
-25°C to +75°C
Plastic

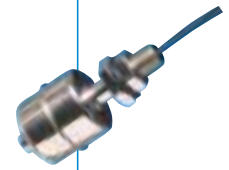


Types

ILM. ILC series



ILMM. series



Operating temperature	-10° to +120°C
	-10° to +200°C
	-20° to +120°C
	-25° to +120°C
	-25° to +70°C
	-25° to +70°C
	-25° to +80°C

Output connection	Explosive environment applications	REFERENCES
Silicon cable		ILM.2 / ILM.8
Silicon cable		ILM.S.2
PVC cable	Yes	ILM.S.2/EX+GS50
PVC cable	Yes	ILM.S.2/EX/5MT + CG45X55
		ILC

Output function	REFERENCES
NO / NC	ILMM.5 / ILMM.5/90
NO / NC	ILMM.5/AT/S1
NO	ILMM.5/S2/AT
NO	ILMM.5/S1 / ILMM.5/S2

Electrical Characteristics

Contact

Max swit. voltage	Max swit. current	Max swit. power
220 - 1500 V	1 - 3 A	60 - 120 VA

Max swit. voltage	Max swit. current	Max swit. power
240 Vac;200 Vdc	0.5 A	50 VA

General Characteristics

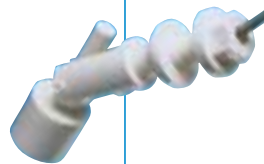
Output connection	PVC Cable
Output function	NO, NC, Change-over
Min. liquid specific gravity	0.75 kg/dm ³
Max. pressure	20 kg/cm ²
Float diameter	Ø 50 / Ø 45 mm.
Special application	ILM.S.2/EX series - Explosive environments
Protection degree	IP 67
Case	AISI 316 Stainless steel

Output connection	XLPE Cable
Output function	See references
Min. liquid specific gravity	0.75 kg/cm ³
Max. pressure	10 kg/cm ²
Float diameter	Ø 28 mm.
Special application	ILMM.5/AT/S1-ILMM.5/S2/AT - High temp. versions
Protection degree	IP 68
Case	AISI 304 / 316 Stainless steel

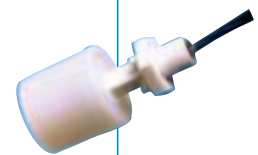
Output connection	XLPE Cable
Output function	See references
Min. liquid specific gravity	0.75 kg/cm ³
Max. pressure	10 kg/cm ²
Float diameter	Ø 28 mm.
Special application	ILMM.5/AT/S1-ILMM.5/S2/AT - High temp. versions
Protection degree	IP 68
Case	AISI 304 / 316 Stainless steel

Types

ILMP series



ILMPU - ILU - ILMU series



Output function

NO - NC	
NO - CO	

Float diameter	Operating Temperature	Weight	REFERENCES
Ø 25 mm	-20°to+80°C	15 g	ILMP.5
Ø 25 mm	-20°to+80°C	18 g	ILMP.5/P

Float diameter	Operating Temperature	REFERENCES
Ø 17.5 mm	-20° to +80°C	ILMPU.5
Ø 31 mm	-20° to +80°C	ILMU.5
Ø 45 mm	-25° to +100°C	ILU.2 / ILU.8
	-25° to +100°C	ILU.S.2
	-25° to +100°C	ILU.S.2/s1

Electrical Characteristics

Contact

Max swit. voltage	Max swit. current	Max swit. power
200VDC;240VAC	0.5 A	50 VA

Max swit. voltage	Max swit. current	Max swit. power
220 - 1500 V	0.5 - 3 A	50- 120 VA

General Characteristics

Output connection	PVC Cable
Min. liquid specific gravity	ILMP.5: 0.65 kg/dm ³ - ILMP.5/P: 0.7 kg/dm ³
Max. pressure	2 kg/cm ²
Protection degree / Case	IP 68 / Plastic

Output connection	Silicon / PVC cable
Min. liquid specific gravity	0.7-0.75 kg/dm ³
Max. pressure	2-100 kg/cm ²
Protection degree / Case	IP 68 / Plastic

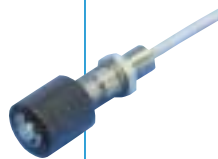
Output connection	Silicon / PVC cable
Min. liquid specific gravity	0.7-0.75 kg/dm ³
Max. pressure	2-100 kg/cm ²
Protection degree / Case	IP 68 / Plastic



Types

ILSP. series

Magnetic Flux Sensor FLM. series



External dimensions (mm)

References

Float diameter: Ø 44 mm.

Ø 25 mm.

Electrical Characteristics

Max. switch. voltage contact
Max. switch. current contact
Max. switch. power contact
Max. carry current

General Characteristics

Output connection

Output function

Operating distance Don

Release distance Doff

Float

Min. liquid specific gravity

Max. pressure

Operating temperature

-25° to +100°C:

-25° to +80°C:

-30° to +105°C

Protection degree

Case and spring

Output function

NO-NC-CO **ILSP.2 / ILSP.8**

NO-NC-CO **ILSP.S2**

NO **ILSP.3M/S2**

220 - 1500 V

0.5 - 3 A

10 - 120 VA

Silicon Cable

0.65-0.75 kg/dm³

2-6 kg/cm²

ILSP.2 - ILSP.8 - ILSP.S.2

ILSP.3M/S2

IP 68

Plastic

M10 x 1

FLM.A.1/S1

200 V

0.4 A

10 VA

0.75 A

HT105 PVC cable ended with
6.35 mm. faston receptacle

NO

5 mm

Don - 2 mm

Temperature resistant
plastic material

FLM.A.1/S1

IP 67

Stainless steel

Types

Magnetic Units CL series

Shapes

Rectangular

Trapezoidal

Cylindrical



Dimensions
(mm.)

REFERENCES

Dimensions
(mm.)

REFERENCES

Dimensions
(mm.)

REFERENCES

Minimum separation:

10

20

30

50

Not mandatory

25 x 14 x 8

CL.1

44.5 x 12 x 9

CL.2

59 x 18 x 9

CL.3

76 x 25 x 18

CL.4

90 x 31 x 22.5

CL.90

Ø 9.3 x 32

CL.10

Ø 13.5 x 65

CL.11

Ø 18 x 6

CL.18

Ø 23 x 9

CL.23

Ø 31 x 10

CL.31

Ø 25.1 x 9.3

CL.20/S1

Ø 22.1 x 10.5

CL.20/S3

Ø 50 x 10

CL.50