

Cylindrical S18

INDUCTIVE SENSORS M8 x 1

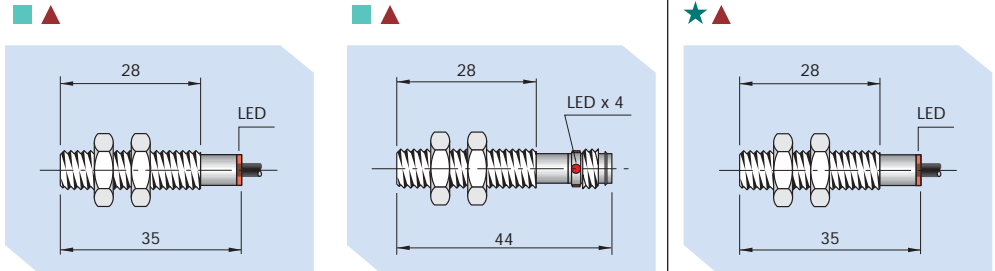


CYLINDRICAL SHORT HOUSING S SERIES
3 WIRES D.C.
CONFORMING TO EN 50044
VERSION-C

- STANDARD SWITCHING DISTANCE
- ★ EXTENDED SWITCHING DISTANCE
- ▲ EMBEDDABLE (FLUSH MOUNTING)
- NOT EMBEDDABLE (NON FLUSH MOUNTING)

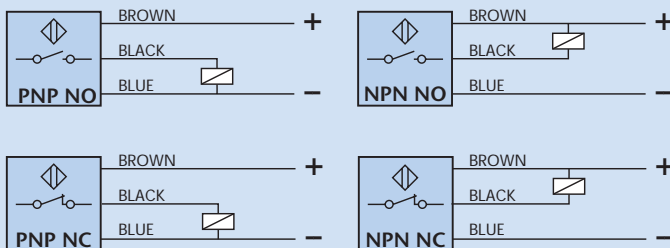
TECHNICAL CHARACTERISTICS

Dimensions mm



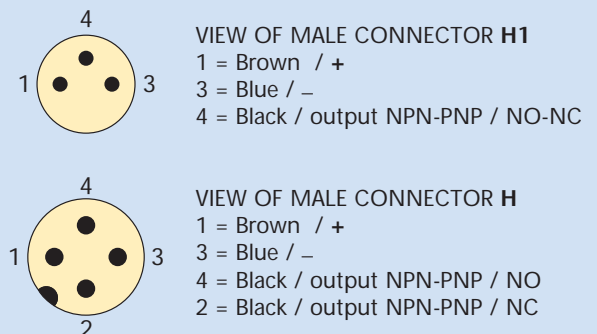
AMPLIFIED 3 WIRES D.C.	NPN	NO	S18 - C 1 NPN NO S	S18 - C 1 NPN NO H1 S	S18 - DC 2 NPN NO S
		NC	S18 - C 1 NPN NC S	S18 - C 1 NPN NC H1 S	S18 - DC 2 NPN NC S
	PNP	NO	S18 - C 1 PNP NO S	S18 - C 1 PNP NO H1 S	S18 - DC 2 PNP NO S
		NC	S18 - C 1 PNP NC S	S18 - C 1 PNP NC H1 S	S18 - DC 2 PNP NC S
Switching distance (Sn)	mm		1.5	1.5	2
Continuous voltage (residual ripple ≤10%)	V			6 ÷ 30	
Hysteresis (%Sn)	mm			< 10%	
Switching frequency	Hz			2000	
Repeatability	% of Sn			≤ 3	
Max output current	mA			200	
Absorption at 24Vdc	mA			< 12	
Voltage drop (sensor ON)	V			< 1.8	
Short circuit protection				Incorporated	
Led				Incorporated	
Temperature limits	°C			- 25 ÷ + 70	
IP rating	IP		67	Depending on connector	67
Housing				Stainless steel	
Cable PVC	2m		3 x 0.14 mm ²		3 x 0.14 mm ²
Connector plug				H1	

WIRING DIAGRAMS



N.B.: Upon request cable for sensors with different lengths
3.5 - 5 - 7.5 - 10 metres is available.

CONNECTION WITH H1 - H PLUG FOR THE CONNECTORS SEE PAGE 85

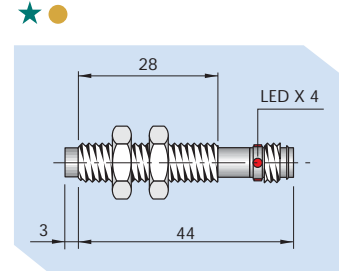
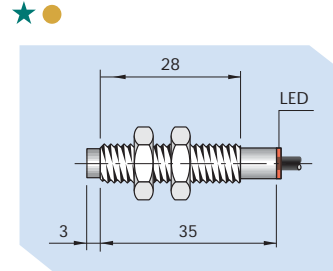
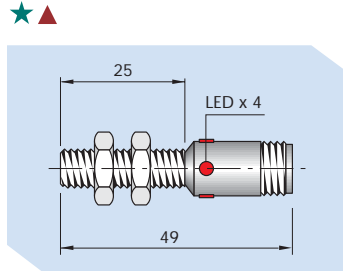
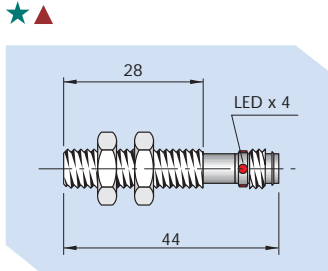


Cylindrical SI8

INDUCTIVE SENSORS M8 x 1



CYLINDRICAL SHORT HOUSING S SERIES
3 WIRES D.C.
CONFORMING TO EN 50044
VERSION-C



SI8 - DC 2 NPN NO H1 S

SI8 - DC 2 NPN NO H S

SI8 - DCE 3 NPN NO S

SI8 - DCE 3 NPN NO H1 S

SI8 - DC 2 NPN NC H1 S

SI8 - DC 2 NPN NC H S

SI8 - DCE 3 NPN NC S

SI8 - DCE 3 NPN NC H1 S

SI8 - DC 2 PNP NO H1 S

SI8 - DC 2 PNP NO H S

SI8 - DCE 3 PNP NO S

SI8 - DCE 3 PNP NO H1 S

SI8 - DC 2 PNP NC H1 S

SI8 - DC 2 PNP NC H S

SI8 - DCE 3 PNP NC S

SI8 - DCE 3 PNP NC H1 S

2

2

3

3

6 ÷ 30

< 10%

2000

≤ 3

200

< 12

< 1.8

Incorporated

Incorporated

- 25 ÷ + 70

Depending on connector

67

Depending on connector

Acciaio inox

3 x 0.14 mm²

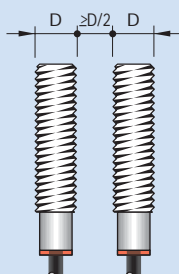
H1

H

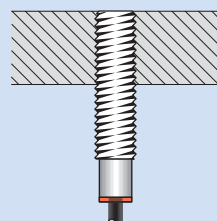
H1

INSTRUCTIONS FOR CORRECT INSTALLATION

EMBEDDABLE

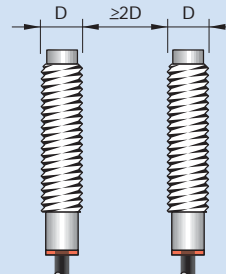


Side by side mounting

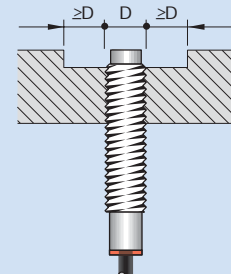


Flush mounting

NOT EMBEDDABLE



Side by side mounting



Flush mounting

Cylindrical SI8

INDUCTIVE SENSORS M8 x 1



CYLINDRICAL LONG HOUSING

3 WIRES D.C.

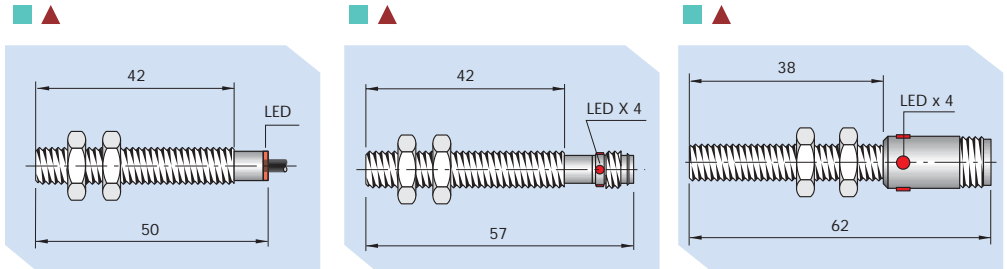
CONFORMING TO EN 50008 - EN 50044

VERSION-C

- STANDARD SWITCHING DISTANCE
- ★ EXTENDED SWITCHING DISTANCE
- ▲ EMBEDDABLE (FLUSH MOUNTING)

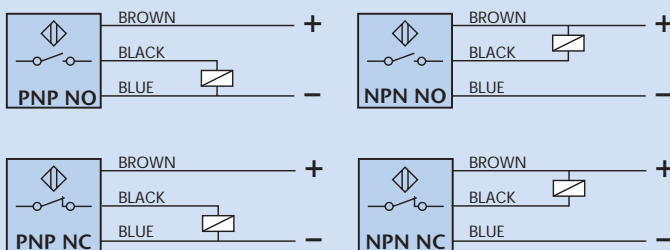
TECHNICAL CHARACTERISTICS

Dimensions mm



AMPLIFIED 3 WIRES D.C.	NPN	NO	SI8 - C 1 NPN NO	SI8 - C 1 NPN NO H1	SI8 - C 1 NPN NO H
		NC	SI8 - C 1 NPN NC	SI8 - C 1 NPN NC H1	SI8 - C 1 NPN NC H
	PNP	NO	SI8 - C 1 PNP NO	SI8 - C 1 PNP NO H1	SI8 - C 1 PNP NO H
		NC	SI8 - C 1 PNP NC	SI8 - C 1 PNP NC H1	SI8 - C 1 PNP NC H
Switching distance (Sn)	mm		1.5	1.5	1.5
Continuous voltage (residual ripple ≤10%)	V			6 ÷ 30	
Hysteresis (%Sn)	mm			< 10%	
Switching frequency	Hz			2000	
Repeatability	% of Sn			≤ 3	
Max output current	mA			200	
Absorption at 24Vdc	mA			< 12	
Voltage drop (sensor ON)	V			< 1.8	
Short circuit protection				Incorporated	
Led				Incorporated	
Temperature limits	°C			- 25 ÷ + 70	
IP rating	IP		67	Depending on connector	Depending on connector
Housing				Stainless steel	
Cable PVC	2m		3 x 0.14 mm ²		
Connector plug				H1	H

WIRING DIAGRAMS

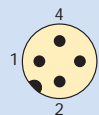


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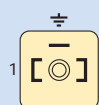
CONNECTION WITH H1 - H - K PLUGS FOR THE CONNECTORS SEE PAGE 85



VIEW OF MALE CONNECTOR H1
1 = Brown / +
3 = Blue / -
4 = Black / output NPN-PNP / NO-NC



VIEW OF MALE CONNECTOR H
1 = Brown / +
3 = Blue / -
4 = Black / output NPN-PNP / NO
2 = Black / output NPN-PNP / NC



VIEW OF MALE CONNECTOR K
2 = Brown / +
1 = Blue / -
≠ = Black / output NPN-PNP / NO-NC

Cylindrical S18

INDUCTIVE SENSORS M8 x 1

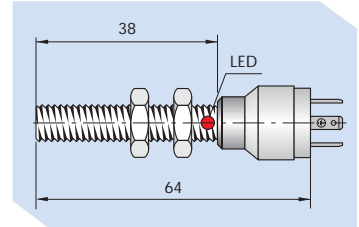
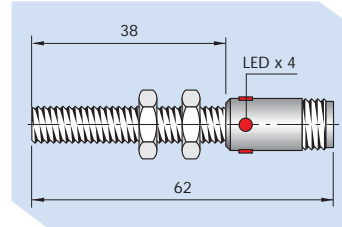
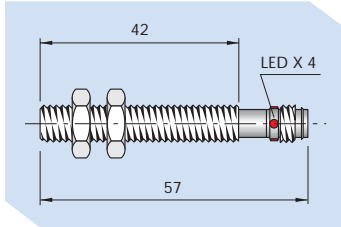
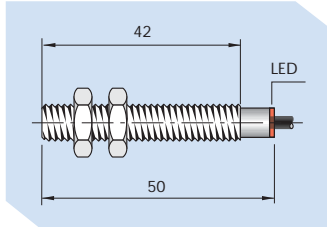


CYLINDRICAL LONG HOUSING

3 WIRES D.C.

CONFORMING TO EN 50008 - EN 50044

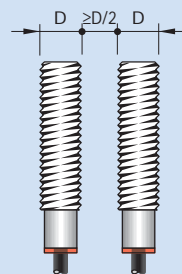
VERSION-C



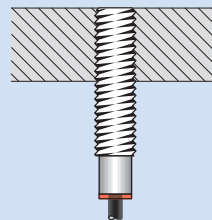
S18 - DC 2 NPN NO	S18 - DC 2 NPN NO H 1	S18 - DC 2 NPN NO H	S18 - DC 2 NPN NO K
S18 - DC 2 NPN NC	S18 - DC 2 NPN NC H 1	S18 - DC 2 NPN NC H	S18 - DC 2 NPN NC K
S18 - DC 2 PNP NO	S18 - DC 2 PNP NO H 1	S18 - DC 2 PNP NO H	S18 - DC 2 PNP NO K
S18 - DC 2 PNP NC	S18 - DC 2 PNP NC H 1	S18 - DC 2 PNP NC H	S18 - DC 2 PNP NC K
2	2	2	2
6 ÷ 30			
<10%			
2000			
≤ 3			
200			
< 12			
<1.8			
Incorporated			
Incorporated			
- 25 ÷ + 70			
67	Depending on connector	Depending on connector	65
Stainless steel			
3 x 0.14 mm ²			
	H1	H1	K (type 11)

INSTRUCTIONS FOR CORRECT INSTALLATION

EMBEDDABLE



Side by side mounting



Flush mounting