

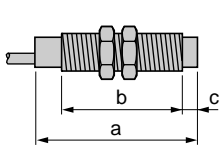
Inductive proximity sensors

Cylindrical type, M8 x 1 threaded
Metal case (brass), short
d.c. supply

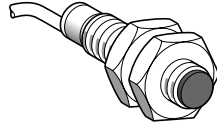
Accessories :
page 3/0

References, characteristics, dimensions, schemes

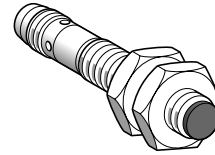
Flush mountable in metal



Lengths (mm) :
a = Overall
b = Threaded section
c = For non flush mounting sensors



a = 33
b = 26



a = 42
b = 26

Nominal sensing distance (Sn)	1.5 mm	Increased range model 2.5 mm	1.5 mm	Increased range model 2.5 mm
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References

3-wire ---	PNP	NO	XS1-N08PA340	XS1-N08PA349	XS1-N08PA340S	XS1-N08PA349S
		NC	XS1-N08PB340	XS1-N08PB349	XS1-N08PB340S	XS1-N08PB349S
	NPN	NO	XS1-N08NA340	XS1-N08NA349	XS1-N08NA340S	XS1-N08NA349S
		NC	XS1-N08NB340	XS1-N08NB349	XS1-N08NB340S	XS1-N08NB349S
Weight (kg)		0.035	0.035	0.015	0.015	

Characteristics

Connection	Pre-cabled, 3 x 0.11 mm² or 4 x 0.08 mm², L = 2 m (1)		Connector (types 1 to 8) (2)	
Degree of protection	IP 67		Depending on connector (see pages 3/2 and 3/3)	
Operating zone	0...1.2 mm	0...2 mm	0...1.2 mm	0...2 mm
Repeat accuracy	3 % of Sr			
Differential travel	1...15 % of Sr			
Operating temperature	- 25...+ 70 °C	- 25...+ 50 °C	- 25...+ 70 °C	- 25...+ 50 °C
Output state indication	LED, annular		LED, 4 viewing ports at 90°	
Rated supply voltage	--- 12...24 V			
Voltage limits (including ripple)	--- 10...38 V (~ 24 V rectified and filtered)			
Switching capacity	0...200 mA with overload and short-circuit protection			
Voltage drop, closed state	≤ 2 V	≤ 2.6 V	≤ 2 V	≤ 2.6 V
Residual current, open state	—	—	—	—
Current consumption, no-load	≤ 10 mA	≤ 10 mA	≤ 10 mA	≤ 10 mA
Maximum switching frequency	5000 Hz	350 Hz	5000 Hz	350 Hz
Delays	first-up	≤ 5 ms	≤ 5 ms	≤ 5 ms
	response	≤ 0.1 ms	≤ 1 ms	≤ 0.1 ms
	recovery	≤ 0.1 ms	≤ 4 ms	≤ 0.1 ms

Wiring schemes

3-wire ---, NO or NC output
XS1/XS2-N08●●340/340S/340D/349/349S/349D



Note : for **XS●-N08●●34●S** sensors, NO or NC output on terminal 4

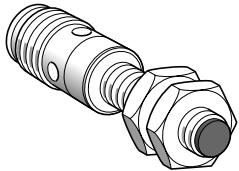
(1) Sensors pre-cabled with other cable lengths :

Length of cable	Suffix to be added to references stated above for 2 m pre-cabled sensors	Weight increase
5 m	L1	0.030 kg
10 m	L2	0.080 kg

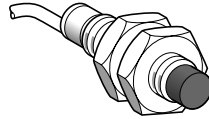
Example : sensor **XS1-N08PA340** with 5 m cable becomes **XS1-N08PA340L1**

(2) The type numbers refer to suitable female connectors and extension cables, see pages 3/2 to 3/5.

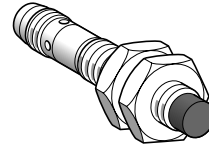
Non flush mountable in metal



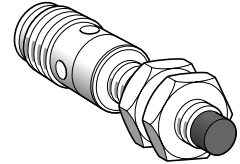
a = 45
b = 24



a = 33
b = 22
c = 4



a = 42
b = 23
c = 4



a = 45
b = 20
c = 4

1.5 mm	Increased range model 2.5 mm	2.5 mm	2.5 mm	2.5 mm
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XS1-N08PA340D	XS1-N08PA349D	XS2-N08PA340	XS2-N08PA340S	XS2-N08PA340D
XS1-N08PB340D	XS1-N08PB349D	XS2-N08PB340	–	–
XS1-N08NA340D	XS1-N08NA349D	XS2-N08NA340	XS2-N08NA340S	XS2-N08NA340D
XS1-N08NB340D	XS1-N08NB349D	XS2-N08NB340	–	–
0.020	0.020	0.035	0.015	0.020

Connector (types 9, 10, 15, 16) (2)	Connector (types 9, 10, 11, 12, 15, 16) (2)	Pre-cabled, 3 x 0.11 or 4 x 0.08 mm ² , L = 2 m (1)	Connector (types 1 to 8) (2)	Connector (types 9, 10, 15, 16) (2)
Depending on connector (see pages 3/4 and 3/5)		IP 67	Depending on connector (see pages 3/2 to 3/5)	
0...1.2 mm	0...2 mm	0...2 mm		
3 % of Sr				
1...15 % of Sr				
- 25...+ 70 °C	- 25...+ 50 °C	- 25...+ 70 °C		
LED, 4 viewing ports at 90°		LED, annular	LED, 4 viewing ports at 90°	
≡ 12...24 V				
≡ 10...38 V (~ 24 V rectified and filtered)				
0...200 mA with overload and short-circuit protection				
≤ 2 V	≤ 2.6 V	≤ 2 V		
–	–	–		
≤ 10 mA	≤ 10 mA	≤ 10 mA		
5000 Hz	350 Hz	800 Hz		
≤ 5 ms	≤ 5 ms	≤ 5 ms		
≤ 0.1 ms	≤ 1 ms	≤ 0.1 ms		
≤ 0.1 ms	≤ 4 ms	≤ 0.1 ms		

Setting-up

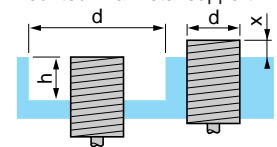
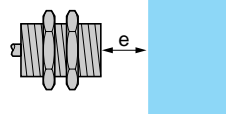
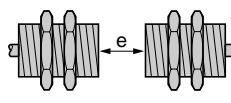
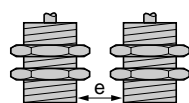
Minimum mounting distances (mm)

Side by side

Face to face

Facing a metal object

Mounted in a metal support



XS1 flush mountable in metal	e ≥ 3	e ≥ 18	e ≥ 4.5	d ≥ 8, h ≥ 0	–
XS1 increased range models	e ≥ 5	e ≥ 30	e ≥ 7.5	d ≥ 10, h ≥ 1.6	d ≥ 8, x ≥ 1.6
XS2 non flush mountable in metal	e ≥ 10	e ≥ 30	e ≥ 7.5	d ≥ 24, h ≥ 5	–
Fixing nut tightening torque :	< 5 N.m				

Other versions

Inductive proximity sensors specifically designed for other ambient operating temperatures. Please consult your local Customer support centre.