

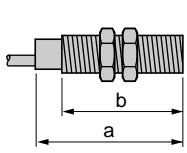
Inductive proximity sensors

Cylindrical type, M8 x 1 threaded
Plastic case, short and form A
d.c. supply

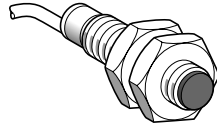
Accessories :
page 3/0

References, characteristics, dimensions, schemes

Flush mountable in metal

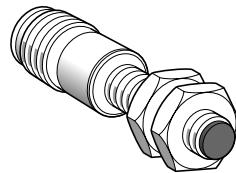


Lengths (mm) :
a = Overall
b = Threaded section



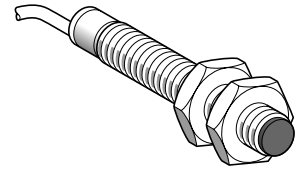
a = 33
b = 26

Short case



a = 45
b = 24

Short case



a = 50
b = 40

Form A case

Nominal sensing distance (S _n)	1.5 mm	1.5 mm	1.5 mm
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References

3-wire ---	PNP	NO	XS3-P08PA340	XS3-P08PA340D	XS3-P08PA370
		NC	–	–	–
	NPN	NO	XS3-P08NA340	XS3-P08NA340D	XS3-P08NA370
		NC	–	–	–
4-wire --- (complementary outputs)	PNP	NO + NC	–	–	–
	NPN	NO + NC	–	–	–
Weight (kg)		0.025	0.015	0.030	

Characteristics

Connection	Pre-cabled, 3 x 0.11 mm ² , L = 2 m (1)	Connector (9, 10, 15, 16) (2)	Pre-cabled, 3 x 0.11 mm ² , L = 2 m (1)
Degree of protection	IP 67	Depending on connector (see pages 3/4 and 3/5)	IP 67
Operating zone	0...1.2 mm		0...1.2 mm
Repeat accuracy	3 % of S _r		3 % of S _r
Differential travel	1...15 % of S _r		1...15 % of S _r
Operating temperature	- 25...+ 80 °C		
Output state indication	LED, annular		
Rated supply voltage	--- 12...24 V		--- 12...48 V
Voltage limits (including ripple)	--- 10...38 V (~ 24 V rectified and filtered)		--- 10...58 V (3)
Switching capacity	0...200 mA with overload and short-circuit protection		
Voltage drop, closed state	≤ 2 V		
Residual current, open state	–		
Current consumption, no-load	≤ 10 mA		
Maximum switching frequency	5000 Hz		
Delays	First-up : ≤ 5 ms ; response : ≤ 0.1 ms ; recovery : ≤ 0.1 ms		

Wiring schemes

3-wire ---, NO or NC output
XS3/XS4-P08●●340/340S/340D/370



For type S connectors, NO and NC on terminal 4

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

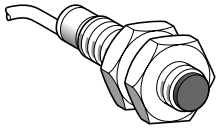
Length of cable	Suffix to be added to references stated above for 2 m pre-cabled sensors	Weight increase
5 m	L1	0.030 kg
10 m	L2	0.080 kg

Example : sensor **XS3-P08PA340** with 5 m cable becomes **XS3-P08PA340L1**

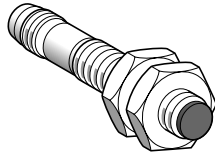
(2) The type numbers refer to suitable female connectors and extension cables, see pages 3/2 to 3/5.

(3) Can be supplied with rectified ~ 24 V.

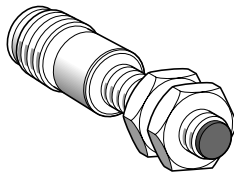
Non flush mountable in metal



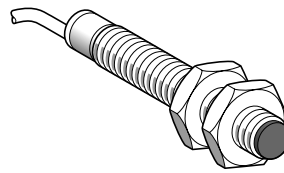
a = 33
b = 26



a = 42
b = 26



a = 45
b = 24



a = 50
b = 40

Short case	Short case	Short case	Form A case	Form A case
2.5 mm	2.5 mm	2.5 mm	2.5 mm	2.5 mm

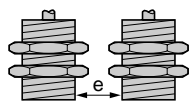
XS4-P08PA340	XS4-P08PA340S	XS4-P08PA340D	XS4-P08PA370	–
XS4-P08PB340	–	–	–	–
XS4-P08NA340	XS4-P08NA340S	XS4-P08NA340D	XS4-P08NA370	–
XS4-P08NB340	–	–	–	–
–	–	–	–	XS4-P08PC410
–	–	–	–	XS4-P08NC410
0.025	0.010	0.015	0.030	0.030

Pre-cabled, 3 x 0.11 mm ² , length 2 m (1)	Connector (types 1 to 8) (2)	Connector (types 9, 10, 15, 16) (2)	Pre-cabled, 3 x 0.11 mm ² , length 2 m (1)	Pre-cabled, 4 x 0.08 mm ² , length 2 m (1)
IP 67	Depending on connector (see pages 3/4 to 3/5)		IP 67	
0...2 mm				
3 % of Sr				
1...15 % of Sr				
- 25...+ 80 °C				
LED, annular				
≐ 12...24 V			≐ 12...48 V	≐ 12...24 V
≐ 10...38 V (~ 24 V rectified and filtered)			≐ 10...58 V (3)	≐ 10...38 V (~ 24 V rectified and filtered)
0...200 mA with overload and short-circuit protection				
≤ 2 V				
–				
≤ 10 mA				
5000 Hz				
First-up: ≤ 5 ms ; response: ≤ 0.1 ms ; recovery: ≤ 0.1 ms				

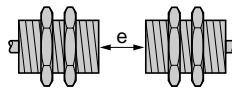
Setting-up

Minimum mounting distances (mm)

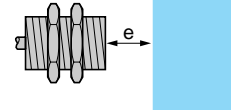
Side by side



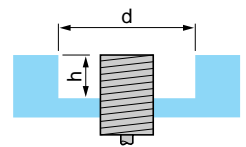
Face to face



Facing a metal object



Mounted in a metal support



XS3 flush mountable in metal	e ≥ 3	e ≥ 18	e ≥ 4.5	d ≥ 8, h ≥ 0
XS4 non flush mountable in metal	e ≥ 10	e ≥ 30	e ≥ 7.5	d ≥ 24, h ≥ 5
Fixing nut tightening torque	< 1 N.m			

Other versions

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