

Inductive proximity sensors

Cylindrical type, M30 x 1.5 threaded
Metal case (brass or stainless steel), form A
d.c. supply (continued)

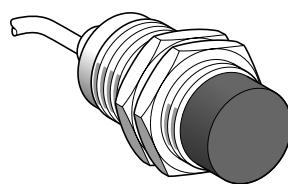
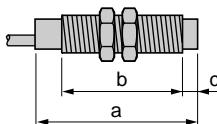
Accessories :
page 3/0

References, characteristics, dimensions, schemes

1

1.1

Non flush mountable in metal



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

a = 60
b = 38.5
c = 13
Brass case

Stainless steel case

Brass case

Nominal sensing distance (Sn)	15 mm	15 mm	15 mm
-------------------------------	-------	-------	-------

References

3-wire	PNP	NO	XS2-M30PA370	XS2-M30PA371	-
		NC	XS2-M30PB370	-	-
	NPN	NO	XS2-M30NA370	XS2-M30NA371	-
		NC	XS2-M30NB370	-	-
4-wire	universal model	PNP/NPN programmable	-	-	XS2-M30KP340
Weight (kg)			0.205	0.205	0.205

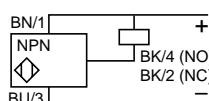
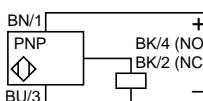
Characteristics

Connection	Pre-cabled, 3 x 0.34 mm², length 2 m (1)	
Degree of protection	IP 68	
Operating zone	0...12 mm	
Repeat accuracy	3 % of Sr	
Differential travel	1...15 % of Sr	
Operating temperature	- 25...+ 80 °C	
Output state indication	LED, annular	
Rated supply voltage	12...48 V	12...24 V
Voltage limits (including ripple)	10...58 V (3)	10...38 V (4)
Switching capacity	0...200 mA with overload and short-circuit protection	
Voltage drop, closed state	≤ 2 V	≤ 2.6 V
Residual current, open state	-	
Current consumption, no-load	≤ 10 mA	
Maximum switching frequency	1000 Hz	
Delays	First-up : ≤ 5 ms ; response : ≤ 0.3 ms ; recovery : ≤ 0.7 ms	

Wiring schemes

3-wire, NO or NC output

XS2-M30●●370/371/370D/370G/370T



Note : for **XS2-M30●●370C** sensors, NO or NC output on terminal 2

(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	0.120 kg
10 m	L2	0.320 kg

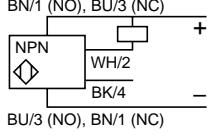
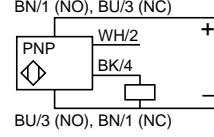
Example : sensor **XS2-M30PA370** with 5 m cable becomes **XS2-M30PA370L1**

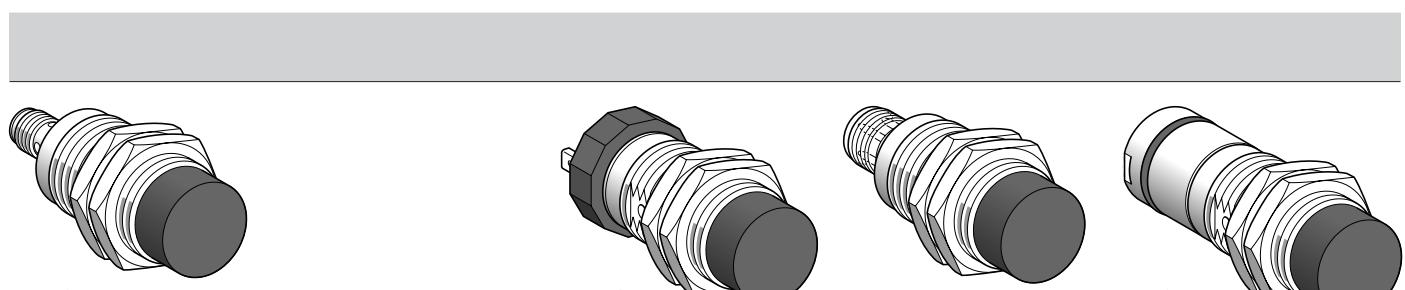
(2) The type numbers refer to suitable female connectors and extension cables, see pages 3/4 to 3/7.

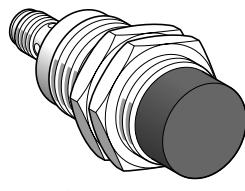
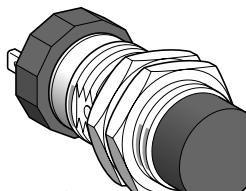
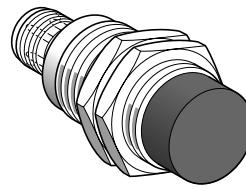
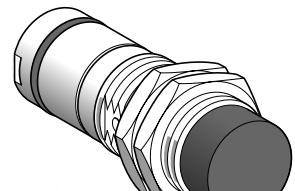
(3) Can be supplied with rectified ~ 24 V.

(4) ~ 24 V rectified and filtered.

4-wire programmable, NO or NC output
XS2-M30KP340/340D





			
a = 70 b = 38.5 c = 13 Brass case	a = 71 b = 38.5 c = 13 Brass case	a = 75 b = 38.5 c = 13 Brass case	a = 87 b = 38.5 c = 13 Brass case
15 mm	15 mm	15 mm	15 mm

XS2-M30PA370D	—	XS2-M30PA370C	XS2-M30PA370G	XS2-M30PA370T
XS2-M30PB370D	—	—	—	—
XS2-M30NA370D	—	XS2-M30NA370C	XS2-M30NA370G	XS2-M30NA370T
XS2-M30NB370D	—	—	—	—
—	XS2-M30KP340D	—	—	—
0.145	0.145	0.185	0.145	0.235

Connector (types 9, 10, 15, 16) (2)	Connector (type 21) (2)	Connector (types 19 and 20) (2)	Connector (type 22) (2)
Depending on connector (see pages 3/4 to 3/7)			
0...12 mm			
3 % of Sr			
1...15 % of Sr			
- 25...+ 80 °C			
LED, 4 viewing ports at 90°	LED, side mounted	LED, annular	LED, side mounted
— 12...48 V	— 12...24 V	— 12...48 V	
— 10...58 V (3)	— 10...38 V (4)	— 10...58 V (3)	
0...200 mA with overload and short-circuit protection			
≤ 2 V	≤ 2.6 V	≤ 2 V	
—			
≤ 10 mA			
1000 Hz			
First-up : ≤ 5 ms ; response : ≤ 0.3 ms ; recovery : ≤ 0.7 ms			

Setting-up

Minimum mounting distances (mm)	Side by side	Face to face	Facing a metal object	Mounted in a metal support

XS2 non flush mountable in metal e ≥ 60 e ≥ 180 e ≥ 45 d ≥ 90, h ≥ 30

Fixing nut tightening torque : < 50 N.m (brass case), < 100 N.m (stainless steel case)

Other versions

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