

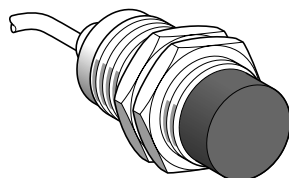
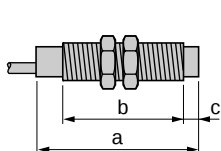
Inductive proximity sensors

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

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	NO/NC	—	—	XS2-M30KP340
Weight (kg)			0.205	0.205	0.205

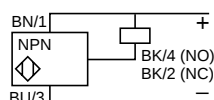
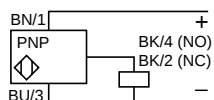
Characteristics

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

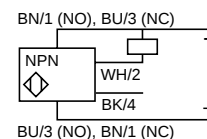
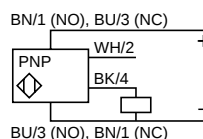
3-wire ---, NO or NC output

XS2-M30●●370/371/370D/370G/370T



4-wire --- programmable, NO or NC output

XS2-M30KP340/340D



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

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

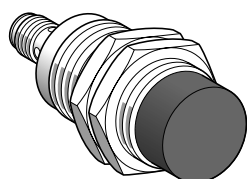
Length of cable	Suffix to be added to references stated above for 2 m pre-cabled sensors	Weight increase
5 m	L1	0.120 kg
10 m	L2	0.320 kg

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.

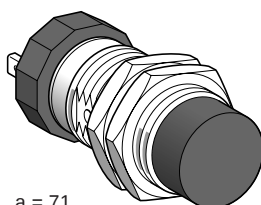


a = 70
b = 38.5
c = 13

Brass case

Brass case

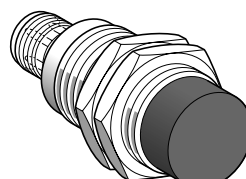
15 mm



a = 71
b = 38.5
c = 13

Brass case

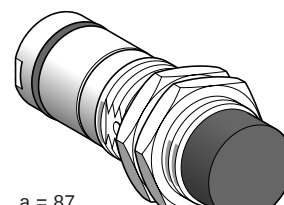
15 mm



a = 75
b = 38.5
c = 13

Brass case

15 mm



a = 87
b = 38.5
c = 13

Brass case

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

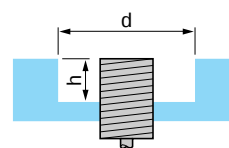
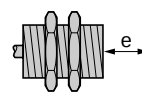
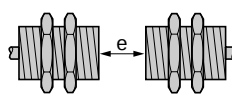
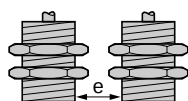
Minimum mounting
distances (mm)

Side by side

Face to face

Facing a metal object

Mounted in a metal support



XS2 non flush mountable in metal	$e \geq 60$	$e \geq 180$	$e \geq 45$	$d \geq 90, h \geq 30$
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.