

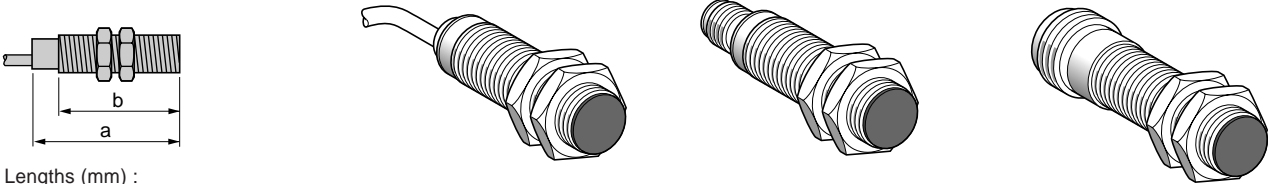
Inductive proximity sensors

Cylindrical type, M18 x 1 threaded
Plastic case, form A
a.c. or d.c. supply

Accessories :
page 3/0

References, characteristics, dimensions, schemes

Flush mountable in metal



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

a = 60
b = 51.5

a = 70
b = 51.5

a = 73.5
b = 52

	AC/DC	AC/DC	AC/DC
Nominal sensing distance (Sn)	5 mm	5 mm	5 mm

References

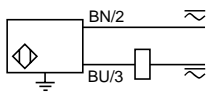
2-wire \sim or \equiv	NO	XS3-P18MA230	XS3-P18MA230K	XS3-P18MA230A
	NC	XS3-P18MB230	XS3-P18MB230K	XS3-P18MB230A
2-wire \sim	NO	-	-	-
	NC	-	-	-
Weight (kg)	0.100	0.040	0.045	

Characteristics

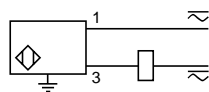
Connection	Pre-cabled, 2 x 0.5 mm ² , L = 2 m (1)	Connector (types 13 and 14) (2)	Connector (type 18) (2)
Degree of protection	IP 68	Depending on connector (see pages 3/5 and 3/6)	
Operating zone	0...4 mm		
Repeat accuracy	3 % of Sr		
Differential travel	1...15 % of Sr		
Operating temperature	- 25...+ 80 °C		
Output state indication	LED, annular		
Rated supply voltage	\sim 24...240 V (50/60 Hz) or \equiv 24...210 V		
Voltage limits (including ripple)	\sim or \equiv 20...264 V		
Switching capacity	(\sim) 5...300 mA or (\equiv) 5...200 mA (3)		
Voltage drop, closed state	\leq 5.5 V		
Residual current, open state	\leq 0.8 mA / 24 V, \leq 1.5 mA / 120 V		
Current consumption, no-load	-		
Maximum switching frequency	(\sim) 25 Hz or (\equiv) 400 Hz		
Delays	first-up	\leq 40 ms	
	response	\leq 2 ms	
	recovery	\leq 4 ms	

Wiring schemes

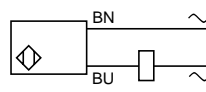
2-wire \sim or \equiv , NO or NC output
XS3/XS4-P18M●230/230K



XS3/XS4-P18M●230A



2-wire \sim , NO or NC output
XS4-P18F●260



⊥ For connector version sensors

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

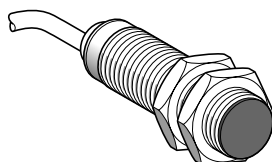
Length of cable	Suffix to be added to references stated above for 2 m pre-cabled sensors	Weight increase
5 m	L1	0.120 kg
10 m	L2	0.320 kg

Example : sensor XS3-P18MA230 with 5 m cable becomes XS3-P18MA230L1

(2) The type numbers refer to suitable female extension cables, see pages 3/5 and 3/6.

(3) These sensors do not incorporate overload or short-circuit protection and therefore, it is recommended that a 0.8 A "quick-blow" fuse be connected in series with the load. See page 3/0.

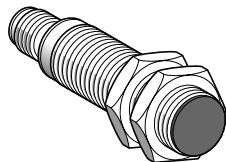
Non flush mountable in metal



a = 60
b = 51.5

AC/DC

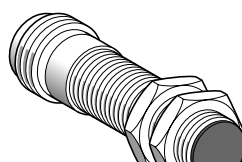
8 mm



a = 70
b = 51.5

AC/DC

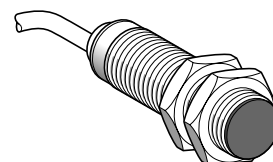
8 mm



a = 73.5
b = 52

AC/DC

8 mm



a = 60
b = 51.5

AC

8 mm

XS4-P18MA230	XS4-P18MA230K	XS4-P18MA230A	–
XS4-P18MB230	XS4-P18MB230K	XS4-P18MB230A	–
–	–	–	XS4-P18FA260
–	–	–	XS4-P18FB260
0.100	0.040	0.045	0.100

Pre-cabled, 2 x 0.5 mm ² , L = 2 m (1)	Connector (types 13 and 14) (2)	Connector (type 18) (2)	Pre-cabled, 2 x 0.5 mm ² , L = 2 m (1)
IP 68	Depending on connector (see pages 3/5 and 3/6)		IP 68
0...6.4 mm			0...6.4 mm
3 % of Sr			3 % of Sr
1...15 % of Sr			1...15 % of Sr
- 25...+ 80 °C			- 25...+ 80 °C
LED, annular			LED, annular
~ 24...240 V (50/60 Hz) or = 24...210 V			~ 24...240 V (50/60 Hz)
~ or = 20...264 V			~ 20...264 V
(~) 5... 300 mA or (=) 5...200 mA (3)			5... 300 mA (3) (2 A inrush)
≤ 5.5 V			≤ 4.5 V
≤ 0.8 mA / 24 V, ≤ 1.5 mA / 120 V			≤ 1.5 mA
–			–
(~) 25 Hz or (=) 100 Hz			25 Hz
≤ 40 ms			≤ 40 ms
≤ 2 ms			≤ 10 ms
≤ 4 ms			≤ 15 ms

Setting-up

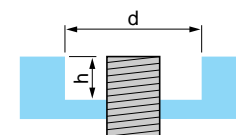
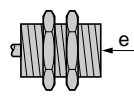
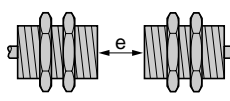
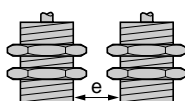
Minimum mounting distances (mm)

Side by side

Face to face

Facing a metal object

Mounted in a metal support



XS3 flush mountable in metal	e ≥ 10	e ≥ 60	e ≥ 15	d ≥ 18, h ≥ 0
XS4 non flush mountable in metal	e ≥ 16	e ≥ 96	e ≥ 24	d ≥ 54, h ≥ 16
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.