1.1

Inductive proximity sensors

Cylindrical type, M18 x 1 threaded Metal case (brass or stainless steel), form A d.c. supply

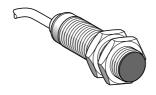
Accessories: page 3/0

References, characteristics, dimensions, schemes

Flush mountable in metal



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



a = 60

b = 51.5

	Brass case	Stainless steel case	Brass case
Nominal sensing distance (Sn)	5 mm	5 mm	5 mm

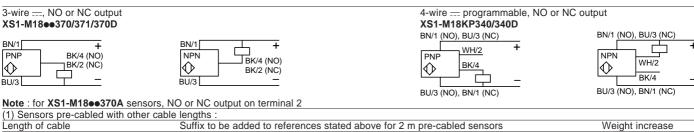
References

3-wire	PNP	NO	XS1-M18PA370	XS1-M18PA371	_
		NC	XS1-M18PB370	_	_
	NPN	NO	XS1-M18NA370	XS1-M18NA371	_
		NC	XS1-M18NB370	_	_
4-wire === universal model	PNP/NPN programm		-	-	XS1-M18KP340
Weight (kg)			0.120	0.120	0.120

Characteristics

Connection	Pre-cabled, 3 x 0.34 mm², length 2 m (1)	
Degree of protection	IP 68	
Operating zone	04 mm	
Repeat accuracy	3 % of Sr	
Differential travel	115 % of Sr	
Operating temperature	- 25+ 80 °C	
Output state indication	LED, annular	
Rated supply voltage	1248 V	<u> 1224 V</u>
Voltage limits (including ripple)	== 1058 V (3)	1038 V (4)
Switching capacity	0200 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	2000 Hz	
Delays	First-up : ≤ 5 ms ; response : ≤ 0.15 ms ; recovery : ≤ 0.35 ms	

Wiring schemes

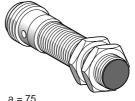


- 5 m
- 0.120 kg 0.320 kg 10 m L2
- Example: sensor XS1-M18PA370 with 5 m cable becomes XS1-M18PA370L1

 (2) The type numbers refer to suitable female connectors and extension cables, see pages 3/4 to 3/6.

 (3) Can be supplied with rectified ~ 24 V.
- (4) ~ 24 V rectified and filtered





a = 70 b = 51.5 a = 75 b = 55

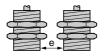
Brass case	Brass case	Brass case
5 mm	5 mm	5 mm

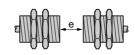
XS1-M18PA370D	-	XS1-M18PA370A
XS1-M18PB370D	_	_
XS1-M18NA370D	_	XS1-M18NA370A
XS1-M18NB370D	_	_
_	XS1-M18KP340D	_
0.060	0.060	0.065

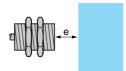
Connector (types 9, 10, 15, 16) (2)		Connector (type 17) (2)
Depending on connector (see pages 3/4 to 3/6)		
04 mm		
3 % of Sr		
115 % of Sr		
- 25+ 80 °C		
LED, 4 viewing ports at to 90°		LED, side mounted
1248 V	1224 V	1248 V
1058 V (3)	1038 V (4)	1058 V (3)
0200 mA with overload and short-circuit prot	ection	
≤ 2 V	≤ 2.6 V	≤ 2 V
_		
≤ 10 mA		
2000 Hz		
First-up : \leq 5 ms ; response : \leq 0.15 ms ; recovery	: ≤ 0.35 ms	

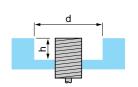
Setting-up

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









XS1 flush mountable in metal	e ≥ 10	e ≥ 60	e ≥ 15	d ≥ 18, h ≥ 0
Fixing nut tightening torque :	< 35 N.m (brass case), < 50 N.m (stainless steel case)			
Other versions	Inductive proximity sensors specifically designed for other ambient operating temperatures. Please consult your local Customer support centre.			