

Inductive proximity sensors

Osiprox® Application

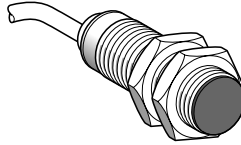
Selective detection of ferrous materials

Selective detection of non ferrous materials

Cylindrical type, solid-state output

Flush mountable

Stainless steel case



Nominal sensing distance (Sn) 5 mm

References

3-wire, ferrous version Insensitive to non ferrous materials	PNP NO	XS1 M18PAS40
3-wire, non ferrous version Insensitive to ferrous materials	PNP NO	XS1 M18PAS20
Weight (kg)		0.120

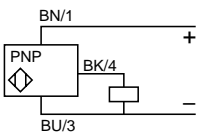
Characteristics

Product certifications	UL, CSA, CE
Connection	Pre-cabled (PvR) 3 x 0.34 mm ² , length 2 m (1)
Operating zone	0...4 mm
Degree of protection conforming to IEC 60529	IP 68
Operating temperature range	- 25...+ 70 °C
Output state indication	LED, annular
Rated supply voltage	12...24 V with protection against reverse polarity
Voltage limits (including ripple)	10...38 V
Switching capacity	0...200 mA with overload and short-circuit protection
Voltage drop, closed state	≤ 2.6 V
Residual current, open state	–
Current consumption, no-load	≤ 15 mA
Maximum switching frequency	1000 Hz
Delays	First-up ≤ 10 ms Response ≤ 0.3 ms Recovery ≤ 0.7 ms

(1) Sensors available pre-cabled with other cable lengths: please consult your Regional Sales Office

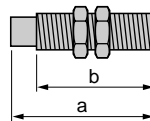
Wiring scheme

3-wire PNP



Dimensions

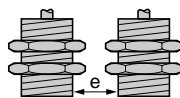
XS1 M



a (mm)	b (mm)
60	51.5

Setting-up

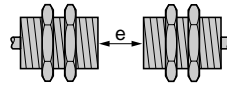
Minimum mounting distances (mm)



Side by side

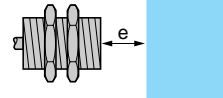
XS1 M18

$e \geq 10$



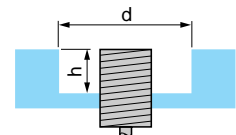
Face to face

$e \geq 60$



Facing a metal object

$e \geq 15$



Mounted in a metal support

$d \geq 18, h \geq 0$ (ferrous metal)
 $d \geq 18, h \geq 5$ (non ferrous metal)

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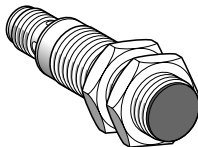
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Selective detection of non ferrous materials

Cylindrical type, solid-state output

Flush mountable

Stainless steel case



Nominal sensing distance (Sn) 5 mm

References

3-wire, ferrous version Insensitive to non ferrous materials	PNP NO	XS1 M18PAS40D
3-wire, non ferrous version Insensitive to ferrous materials	PNP NO	XS1 M18PAS20D
Weight (kg)		0.060

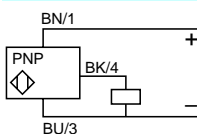
Characteristics

Product certifications	UL, CSA, CE
Connection	M12 connector
Degree of protection conforming to IEC 60529	IP 67
Operating zone	0...4 mm
Operating temperature range	- 25...+ 70 °C
Output state indication	LED, 4 viewing ports at 90°
Rated supply voltage	12...24 V with protection against reverse polarity
Voltage limits (including ripple)	10...38 V
Switching capacity	0...200 mA with overload and short-circuit protection
Voltage drop, closed state	≤ 2.6 V
Residual current, open state	–
Current consumption, no-load	≤ 15 mA
Maximum switching frequency	1000 Hz
Delays	First-up ≤ 10 ms Response ≤ 0.3 ms Recovery ≤ 0.7 ms

Wiring scheme

M12 connector

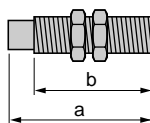
3-wire PNP



See connection on page 30210/3.

Dimensions

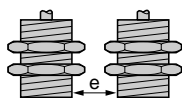
XS1 M



a (mm)	b (mm)
70	51.5

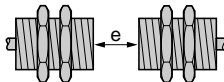
Setting-up

Minimum mounting distances (mm)



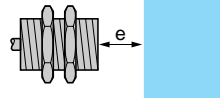
Side by side

$e \geq 10$



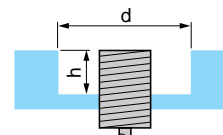
Face to face

$e \geq 60$



Facing a metal object

$e \geq 15$



Mounted in a metal support

$d \geq 18, h \geq 0$ (ferrous metal)
 $d \geq 18, h \geq 5$ (non ferrous metal)

XS1 M18