

# Inductive proximity sensors

## OsiSense XS Application

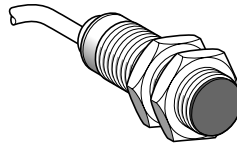
Selective detection of ferrous materials

Selective detection of non ferrous materials

Cylindrical type, solid-state output

### Flush mountable

Stainless steel case



Nominal sensing distance (Sn)	5 mm
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### References

3-wire, ferrous version Insensitive to non ferrous materials	PNP NO	XS1M18PAS40
3-wire, non ferrous version Insensitive to ferrous materials	PNP NO	XS1M18PAS20
Weight (kg)	0.120	

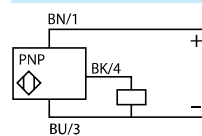
### Characteristics

Product certifications	UL, CSA, CE	
Connection	Pre-cabled, PvR, 3 x 0.34 mm <sup>2</sup> , length 2 m (1)	
Operating zone	0...4 mm	
Degree of protection conforming to IEC 60529	IP 68	
Operating temperature	-25...+70 °C	
Output state indication	Yellow 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 with other cable lengths: please consult our Customer Care Centre.

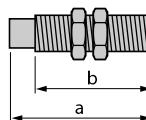
### Wiring schemes

#### 3-wire PNP



### Dimensions

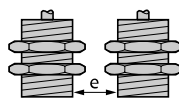
#### XS1M



a (mm)	b (mm)
60	51.5

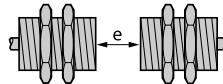
### Setting-up

#### Minimum mounting distances (mm)



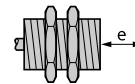
#### Side by side

e ≥ 10



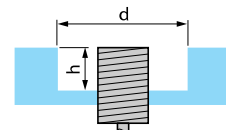
#### Face to face

e ≥ 60



#### Facing a metal object

e ≥ 15



#### Mounted in a metal support

d ≥ 18, h ≥ 0 (ferrous metal)

d ≥ 18, h ≥ 5 (non ferrous metal)

# Inductive proximity sensors

## OsiSense XS Application

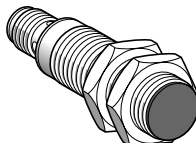
Selective detection of ferrous materials

Selective detection of non ferrous materials

Cylindrical type, solid-state output

### Flush mountable

Stainless steel case



Nominal sensing distance (Sn)	5 mm
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### References

3-wire, ferrous version	PNP	NO	XS1M18PAS40D
Insensitive to non ferrous materials			
3-wire, non ferrous version	PNP	NO	XS1M18PAS20D
Insensitive to ferrous materials			
Weight (kg)	0.060		

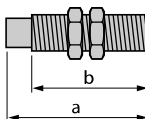
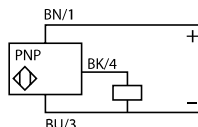
### Characteristics

Product certifications	UL, CSA, CE
Connection	M12 connector
Degree of protection conforming to IEC 60529	IP 67
Operating zone	0...4 mm
Operating temperature	-25...+70 °C
Output state indication	Yellow 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
	Response
	Recovery
	≤ 10 ms
	≤ 0.3 ms
	≤ 0.7 ms

### Wiring schemes

M12 connector

3-wire PNP



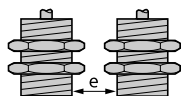
a (mm)	b (mm)
70	51.5

### Dimensions

XS1M

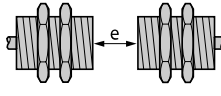
### Setting-up

Minimum mounting distances (mm)



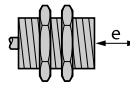
Side by side

$e \geq 10$



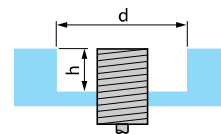
Face to face

$e \geq 60$



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)