

# Product data sheet

Specifications



Inductive proximity sensors XS, inductive sensor XS5 M8, L33mm, stainless, Sn1.5 mm, 12...24 VDC, cable 2 m

XS508B1PAL2

## Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS5
Sensor design	Cylindrical M8
Size	33 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	1.5 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	cable
Cable length	2 m
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

## Complementary

Thread type	M8 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...1.2 mm

Differential travel	1...15% of Sr
Cable composition	3 x 0.11 mm <sup>2</sup>
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10...36 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.1 ms
Maximum delay recovery	0.1 ms
Marking	CE
Threaded length	25 mm
Height	8 mm
Length	33 mm
Net weight	0.035 kg

## Environment

Product certifications	CSA UL
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	54 g
Package 1 Height	4 cm
Package 1 width	9.5 cm
Package 1 Length	13.2 cm
Unit Type of Package 2	S03
Number of Units in Package 2	44
Package 2 Weight	3.087 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	352
Package 3 Weight	34.62 kg
Package 3 Height	77 cm
Package 3 width	80 cm

---

Package 3 Length	60 cm
------------------	-------

---

## Offer Sustainability

---

Sustainable offer status	Green Premium product
--------------------------	-----------------------

---

---

REACH Regulation	<a href="#">REACH Declaration</a>
------------------	-----------------------------------

---

---

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
-------------------	---

---

---

Mercury free	Yes
--------------	-----

---

---

RoHS exemption information	Yes
----------------------------	-----

---

---

Environmental Disclosure	<a href="#">Product Environmental Profile</a>
--------------------------	---

---

---

Circularity Profile	<a href="#">End of Life Information</a>
---------------------	---

---

---

California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
---------------------------	---

---

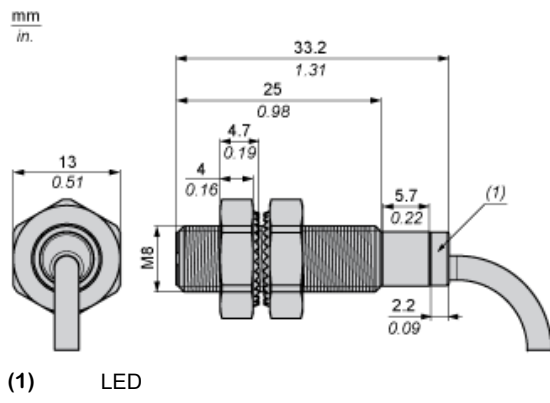
## Contractual warranty

---

Warranty	18 months
----------	-----------

---

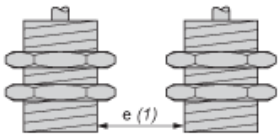
Dimensions



**Minimum Mounting Distances**

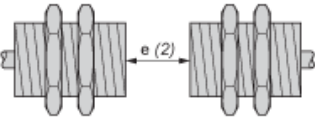
---

Side by side



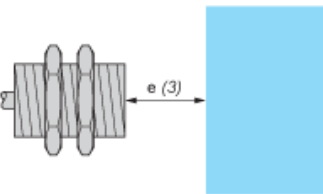
**e (1) ≥ 3 mm/0.12 in.**

Face to face



**e (2) ≥ 18 mm/0.71 in.**

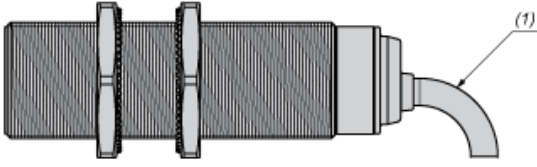
Facing a metal object



**e (3) ≥ 4.5 mm/0.18 in.**

**Mounting**

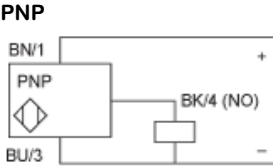
---



(1) Bending cable: 4 x external cable diameter

**Wiring Schemes**

---

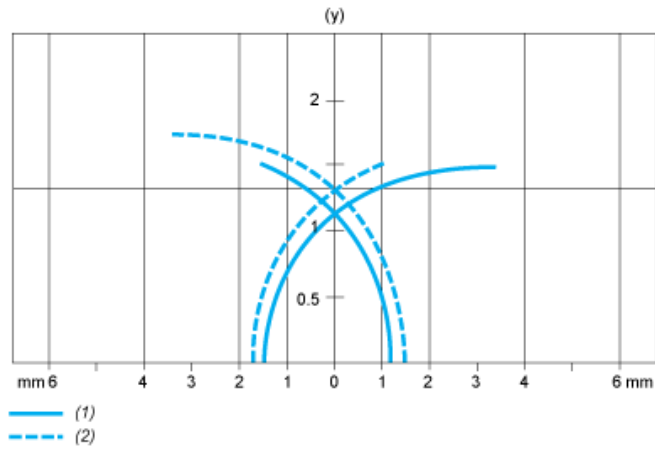


- BU :** Blue
- BN :** Brown
- BK :** Black

Performance Curves

---

Standard Steel Target : 8x8x1 mm



- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)
- (y) Sensing distance in mm