

Product data sheet

Specifications



Inductive proximity sensors XS,
inductive sensor XS7 8x22x8, PBT,
Sn2.5 mm, 12...24 VDC, cable 2 m

XS7J1A1NAL2

Main

Range Of Product	Telemecanique Inductive proximity sensors XS
Series Name	General purpose
Sensor Type	Inductive proximity sensor
Device Application	-
Sensor Name	XS7
Sensor Design	Flat form 8 x 22 x 8
Size	8 mm
Body Type	Fixed
Detector Flush Mounting Acceptance	Flush mountable
Material	Plastic
Enclosure Material	PBT
Type Of Output Signal	Discrete
Wiring Technique	3-wire
Discrete Output Function	1 NO
Output Circuit Type	DC
Discrete Output Type	NPN
Electrical Connection	Cable
Cable Length	2 m
[Us] Rated Supply Voltage	12...24 V DC with reverse polarity protection
Switching Capacity In Ma	<= 100 mA DC with overload and short-circuit protection
Ip Degree Of Protection	IP67 conforming to IEC 60529

Complementary

Detection Face	Frontal
Front Material	PBT
Operating Zone	0...2 mm
Differential Travel	1...15% of Sr
Cable Composition	3 x 0.11 mm²
Wire Insulation Material	PVC
Status Led	Output state: 1 LED (yellow)
Supply Voltage Limits	10...36 V DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Switching Frequency	<= 2000 Hz
Maximum Voltage Drop	<2 V (closed)
Current Consumption	<= 10 mA no-load
Maximum Delay First Up	5 ms
Maximum Delay Response	0.1 ms
Maximum Delay Recovery	0.1 ms
Marking	CE
Depth	8 mm
Height	22 mm
Width	8 mm

Environment

Product Certifications	UL CSA C-Tick
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 Height	9.5 cm
Package 1 Width	13.2 cm
Package 1 Length	4.2 cm
Package 1 Weight	54.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	16
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	1.319 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	256
Package 3 Height	105 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	22.324 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

Well-being performance

✓ Mercury Free

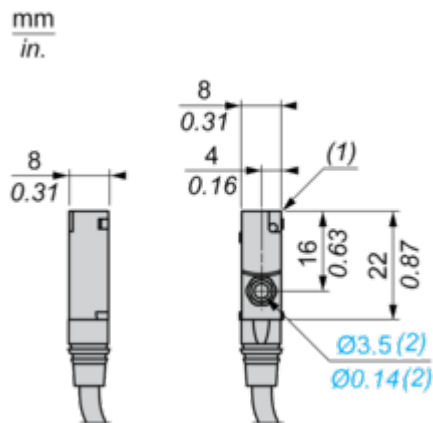
✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Circularity Profile	No need of specific recycling operations
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 Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Dimensions



(1) LED

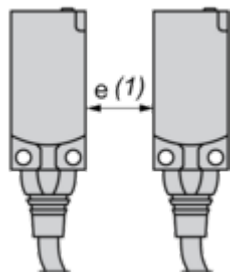
(2) For CHC type screws

Mounting and Clearance

Setting-up

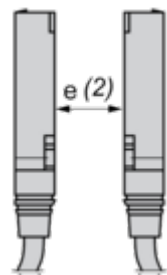
Minimum Mounting Distances (mm)

Side by Side



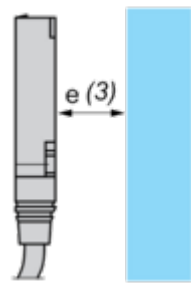
$e (1) \geq 7.5$

Face to Face



$e (2) \geq 20$

Facing a Metal Object

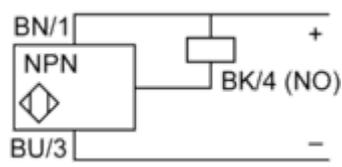


$e (3) \geq 7.5$

Connections and Schema

Wiring Schemes

NPN



BU : Blue
BN : Brown
BK : Black