Product data sheet

Specifications

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

XS7J1A1PAL2

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	PNP
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

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	CSA UL 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	4.2 cm
Package 1 Width	9.5 cm
Package 1 Length	13.0 cm
Package 1 Weight	51.0 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	1.348 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	256
Package 3 Height	75 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	29.56 kg

Contractual warranty

Warranty	18 months

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Sustainability

Green Premium^{TM} 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-CO_2 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 >
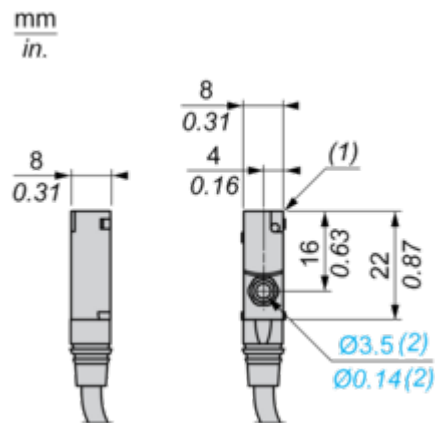
RoHS/REACh

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

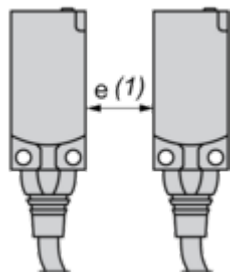|	
California Proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.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

Dimensions Drawings

Dimensions

(1) LED
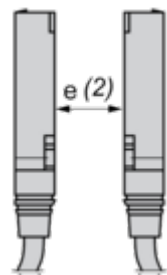**(2)** For CHC type screws

Mounting and Clearance

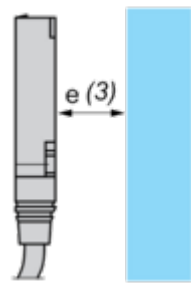## Setting-up

Minimum Mounting Distances (mm)
Side by Side

e (1) ≥ 7.5
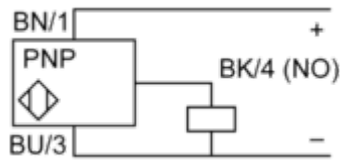**Face to Face**

e (2) ≥ 20
Facing a Metal Object

e (3) ≥ 7.5

Connections and Schema

Wiring Schemes

PNP

BU : Blue
BN : Brown
BK : Black