

# Product data sheet

## Characteristics

# XS7D1A3CAM12DIN

## inductive sensor XS7 80x80x26 - PBT - Sn50mm - 10..48VDC - M12



Product availability: Non-Stock - Not normally stocked in distribution facility



### Main

Range of product	OsiSense XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS7
Sensor design	Flat form 80 x 80 x 26
Size	40 mm
Body type	Fixed clippable onto DIN rail
Detector flush mounting acceptance	Flush mountable
Material	Plastic
Enclosure material	PBT
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	1.97 in (50 mm) non flush mountable 1.97 in (50 mm) flush mountable
Discrete output function	1 NO
Output circuit type	DC
Electrical connection	4 pins M12 male connector
[Us] rated supply voltage	10...48 V DC with reverse polarity protection
Switching capacity in mA	1.5...300 mA with overload and short-circuit protection
IP degree of protection	IP67 double insulation conforming to IEC 60529

### Complementary

Detection face	Frontal
Front material	PBT
Operating zone	0...1.57 in (0...40 mm)
Differential travel	1...15% of Sr
Repeat accuracy	3% of Sr
Status LED	1 LED yellow output state
Supply voltage limits	10...58 V DC
Residual current	<= 0.5 mA open state
Switching frequency	<= 100 Hz
Voltage drop	<= 4.5 V at closed state
Delay first up	<= 10 ms
Delay response	<= 2 ms
Delay recovery	<= 5 ms
Marking	CE
Depth	1.57 in (40 mm)
Height	3.15 in (80 mm)
Width	3.15 in (80 mm)
Product weight	0.82 lb(US) (0.374 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn 11 ms conforming to IEC 60068-2-27

## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	003389110709643
Nbr. of units in pkg.	1
Package weight(Lbs)	7.0000000000000007E-2
Returnability	N
Country of origin	FR

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0903 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and
----- Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

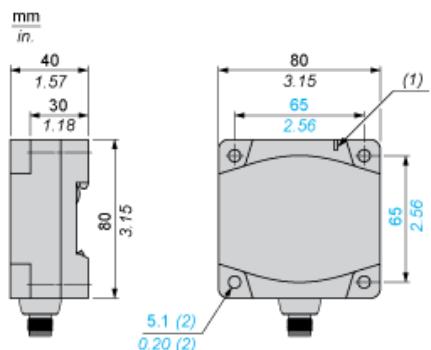
## Contractual warranty

Warranty period	18 months
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Dimensions

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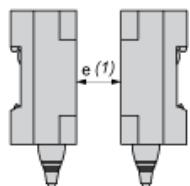


(1) Output LED  
(2) For CHC type screws

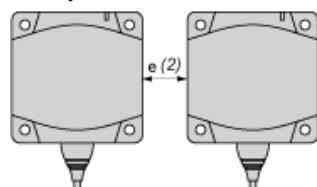
## Setting-up

### Minimum Mounting Distances (mm)

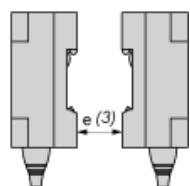
Face to Face



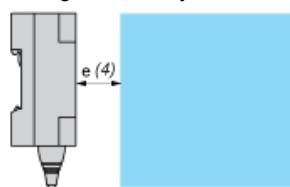
Side by Side



Back to back



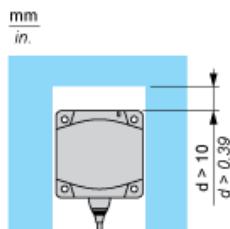
Facing a Metal Object



	e (1)	e (2)	e (3)	e (4)
Flush mounted	450	140	90	150
Not flush mounted	450	180	180	150

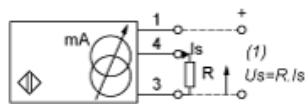
## Flush Conditions

### In A37 Steel



## Wiring Schemes

### 3-Wire Connection

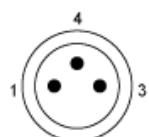


#### (1) Voltage output

Ensure a minimum of 5 V between the + (terminal 1) and the sensor output (terminal 4)

	Output current	Load impedance value	Output voltage	Load impedance value
24 V	0...10 mA	$R \leq 1400 \Omega$	0...10 V	$R = 1000 \Omega$

M8



# Mouser Electronics

Authorized Distributor

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