

Product data sheet

Characteristics

XS7D1A3CAM12DIN

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



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS7
Sensor design	Flat form 80 x 80 x 40
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	50 Mm flush mountable 50 mm non flush mountable
Discrete output function	1 NO
Output circuit type	DC
Electrical connection	Male connector M12, 4 pins
[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...40 mm
Differential travel	1...15% of Sr
Repeat accuracy	3% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10...58 V DC
Maximum residual current	0.5 mA open state
Switching frequency	<= 100 Hz
Maximum voltage drop	<4.5 V (closed)
Maximum delay first up	10 ms
Maximum delay response	2 ms
Maximum delay recovery	5 ms
Marking	CE
Depth	40 mm
Height	80 mm
Width	80 mm
Net weight	0.374 kg



Environment

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	4.3 cm
Package 1 Width	9.6 cm
Package 1 Length	13.2 cm
Package 1 Weight	345.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.045 kg

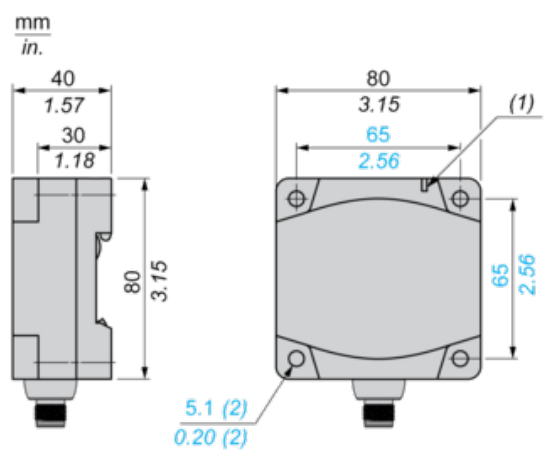
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	 Yes
Circularity Profile	No need of specific recycling operations

Contractual warranty

Warranty	18 months
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Dimensions



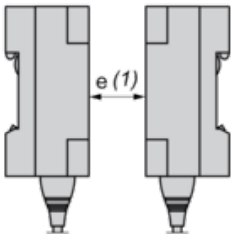
(1) Output LED

(2) For CHC type screws

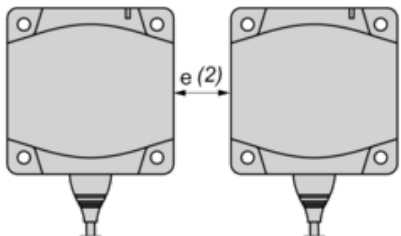
Setting-up

Minimum Mounting Distances (mm)

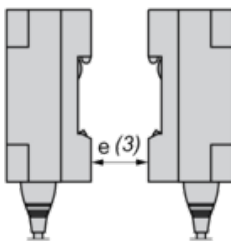
Face to Face



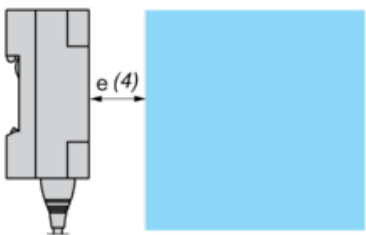
Side by Side



Back to back



Facing a Metal Object

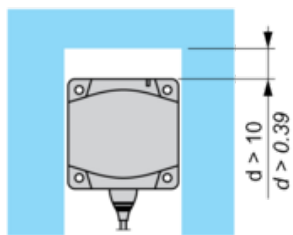


	e (1)	e (2)	e (3)	e (4)
Flush mounted	450	140	90	150
Not flush mounted	450	180	180	150

Flush Conditions

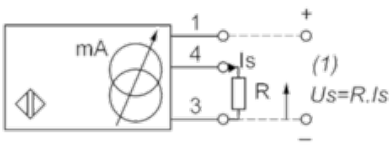
In A37 Steel

mm
in.



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

