# Product data sheet Characteristics

# XS1N05NA310

inductive sensor XS1 M5 - L29mm - brass - Sn1mm - 5..24VDC - cable 2m





#### Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical M5
Size	29 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	0.04 in (1 mm)
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	6.56 ft (2 m)
[Us] rated supply voltage	524 V DC
Switching capacity in mA	<= 100 mA overload and short-circuit protection
IP degree of protection	IP67 IEC 60529

#### Complementary

Complementary	
Thread type	M5 x 0.5
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel Plated Brass
Operating zone	0.000.03 in (00.8 mm)
Cable composition	3 x 0.11 mm²
Wire insulation material	PvR
Status LED	Output state 1 LED yellow)
Supply voltage limits	530 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Marking	CE
Threaded length	1.14 in (29 mm)
Height	0.20 in (5 mm)
Length	1.10 in (28 mm)

### Environment

Product certifications	CSA UL
Ambient air temperature for operation	-13158 °F (-2570 °C)
Ambient air temperature for storage	-40185 °F (-4085 °C)
Vibration resistance	25 gn +/- 2 mm 1055 Hz)IEC 60068-2-6
Shock resistance	50 gn 11 ms IEC 60068-2-27

## Ordering and shipping details

Category	22486 - SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	00785901318644
Nbr. of units in pkg.	1
Package weight(Lbs)	0.11 lb(US) (0.05 kg)
Returnability	Yes
Country of origin	FR

### Packing Units

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Unit Type of Package 1	PCE
Package 1 Height	1.61 in (4.1 cm)
Package 1 width	3.74 in (9.5 cm)
Package 1 Length	5.12 in (13 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	1.76 oz (50 g)
Package 2 Height	0.39 in (1 cm)
Package 2 width	7.87 in (20 cm)
Package 2 Length	5.91 in (15 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	22
Package 3 Weight	3.09 lb(US) (1.4 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

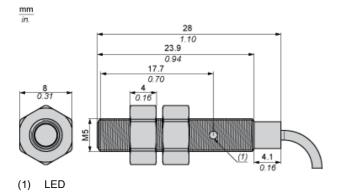
## Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

### Contractual warranty

Warranty	18 months	

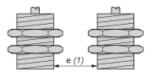
### **Dimensions**



# XS1N05NA310

### Minimum Mounting Distances in mm

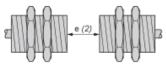
#### Side by side



e (1) 2 mm/0.79 in.

≥

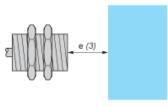
Face to face



e (2) 12 mm/0.47 in.

≥

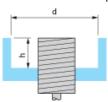
Facing a metal object



e (3) 3 mm/0.12 in.

≥ `

Mounted in a metal support

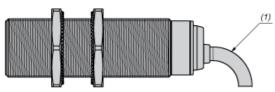


d ≥ 5 mm/0.17 in.

 $h \ge 0 \text{ mm/0 in.}$ 

Tightening torque: 1.6 N.m. (values obtained with washers mounted)

### Mounting

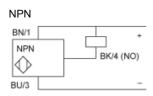


(1) Bending cable: 4 x external cable diameter

# Product data sheet Connections and Schema

# XS1N05NA310

### Wiring Schemes

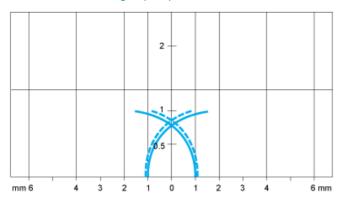


BU : Blue BN : Brown BK : Black

# XS1N05NA310

### **Performance Curves**

### Standard Steel Target (mm): 5x5x1



Pick-up points

-----Drop-out points (object approaching from the side)

(y) Sensing distance in mm