Product datasheet Characteristics

XX230A12NA00M12

ultrasonic sensor cylindrical M30 - 2 levels - Sn 1 m - 2 NO - M12



Main

Main		
Range of product	OsiSense XX	3
Sensor type	Ultrasonic sensor	1
Series name	General purpose	
Sensor name	XX2	4
Sensor design	Cylindrical M30	
Detection system	Diffuse	
[Sn] nominal sensing distance	1 m adjustable with teach push-button	
Material	Plastic	
Type of output signal	Discrete	
Discrete output function	2 NO	
Wiring technique	4-wire	• •
Discrete output type	NPN	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Electrical connection	Male connector M12 4 pins	
Product specific application	For 2 levels monitoring	2.
[Sd] sensing range	0.0510.991 m	
Beam angle	10 °	9
IP degree of protection	IP67 conforming to IEC 60529	

Complementary

Enclosure material	ULTEM	
Front material	Silicone	
Thread type	M30 x 1.5	
Supply voltage limits	1028 V DC	
Function available	Without synchronisation mode	
[Sa] assured operating distance	0.0510.991 m (teach mode)	i
Maximum differential travel	2.5 mm	

Blind zone	051 mm
Transmission frequency	200 kHz
Repeat accuracy	0.9 %
Deviation angle from 90° of object to be detected	-1010 °
Minimum size of detected object	Cylinder diameter 1.6 mm 0.635 m
Status LED	LED (green/red (flashing)) for output state LED (green/red (flashing)) for setting-up assistance LED (yellow) for distance indication
Current consumption	100 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	<= 1 V
Delay first up	1000 ms
Delay response	150 ms
Delay recovery	1000 ms
Marking	CE
Threaded length	45 mm
Height	35 mm
Width	35 mm
Depth	85 mm
Product weight	0.091 kg

Environment

IEC 60947-5-2
050 °C
-1080 °C
+/-1 mm conforming to IEC 60068-2-6 1055 Hz
30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
8 kV level 4 conforming to IEC 61000-4-2
10 V/m level 3 conforming to IEC 61000-4-3
1 kV level 3 conforming to IEC 61000-4-4

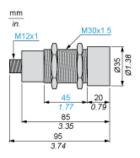
Contractual warranty

Warranty period	18 months

Product datasheet Dimensions Drawings

XX230A12NA00M12

Dimensions



Product datasheet Mounting and Clearance

XX230A12NA00M12

Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Face to face



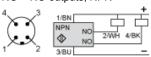
e >4 x Sn

Product datasheet Connections and Schema

XX230A12NA00M12

Wiring Diagram

NO + NO outputs, NPN

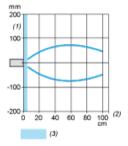


- (1) (+) Brown (2) NO output NO output (White)
- (3) (-) Blue
- (4) NO output (Black)
- BN Brown
- WH White
- BU Blue
- Black BK

Product datasheet Performance Curves

XX230A12NA00M12

Curves

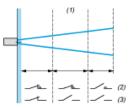


- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.

Product datasheet Performance Curves

XX230A12NA00M12

Operating Curves



- (1) Adjustable detection zone
- Output pin 4 BK
- (2) Output pin 2 WH