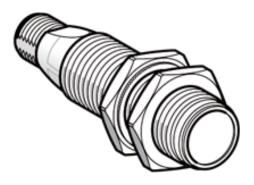
Product datasheet Characteristics

XX218A3NFM12

ultrasonic sensor cylindrical M18 - 2 filling levels - Sn 0.5 m - NO - M12



Main

IVICIII		
Range of product	OsiSense XX	
Sensor type	Ultrasonic sensor	
Series name	Application	
Sensor name	XX2	
Sensor design	Cylindrical M18	
Detection system	Diffuse	
[Sn] nominal sensing distance	0.5 m adjustable with remote teach push-button	
Material	Plastic	
Type of output signal	Discrete	
Discrete output function	1 NO	
Wiring technique	3-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 filling levels monitoring	:
[Sd] sensing range	0.0510.508 m	
Beam angle	6 °	
IP degree of protection	IP67 conforming to IEC 60529	

Complementary

·

Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Deviation angle from 90° of object to be detected	-77 °
Minimum size of detected object	Cylinder diameter 2.5 mm 0.15 m
Status LED	LED (dual colour) for setting-up assistance LED (green) for supply on LED (yellow) for output state
Current consumption	40 mA
Maximum switching current	100 mA with overload and short-circuit protection
Voltage drop	<1 V
Delay first up	100 ms
Delay response	15 ms
Delay recovery	1000 ms
Marking	CE
Threaded length	43 mm
Height	18 mm
Width	18 mm
Depth	79 mm
Product weight	0.033 kg

Environment

Standards	IEC 60947-5-2
Ambient air temperature for operation	-2065 °C
Ambient air temperature for storage	-4080 °C
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 1055 Hz
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4

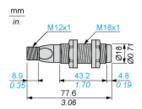
Contractual warranty

Warranty period	18 months

Product datasheet Dimensions Drawings

XX218A3NFM12

Dimensions



Product datasheet Mounting and Clearance

XX218A3NFM12

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

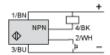
XX218A3NFM12

Wiring Diagram

3-Wire Type

NO outputs, NPN



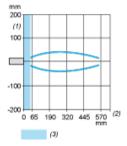


- (+)
- (1) (2) (3) Teach input (WH)
- (-)
- (4) Output
- BN Brown
- WH White
- BU Blue
- BK Black

Product datasheet Performance Curves

XX218A3NFM12

Curves

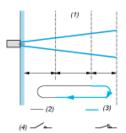


- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.

Product datasheet Performance Curves

XX218A3NFM12

Operating Curves



- (1) Adjustable detection zone
- (2) (3) (4) Output deactivated
- Output activated
- NO output