

Ultrasonic sensors, configurable by software

OsiSense XX

Catalogue



Simply easy!™



Telemecanique
Sensors

Ultrasonic sensors OsiSense XX

Cylindrical, Ø 18 mm, configurable by software

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Ultrasonic sensors
OsiSense XX
Cylindrical type

Applications Detection of any object, without physical contact, irrespective of: material (metal, plastic, wood, cardboard, etc.), nature (solid, liquid, powder, etc.), colour, degree of transparency, etc.
Dimensions (mm)

Sensors with solid-state digital output											
Cylindrical type								Cylindrical type			
								Application, monitoring			
Ø 12 (M12 x 1)		Ø 18 (M18 x 1)			Ø 18 (M18 x 1) (continued)			Ø 30 (M30 x 1.5)		Ø 18 (M18 x 1)	Ø 30 (M30 x 1.5)
											

Sensing distance Sn	Diffuse
	Reflex
	Thru-beam
Assured operating distance (mm)	
Power supply	
Type of output	
Function	
Degree of protection	
Connection	
Sensor type	
Page	

5 cm	10 cm	–	5 cm	15 cm	50 cm
–	–	–	–	–	50 cm
–	–	20 cm	–	–	–
6.4...51 fixed	6.4...102 fixed	–	2...50 fixed	25...152 fixed	Adjustable using teach mode
12...24 V $\overline{\text{---}}$ with protection against reverse polarity					
PNP/NPN	NPN or PNP	PNP/NPN	PNP or NPN	PNP/NPN	NPN or PNP
NO	NO	NO/NC	NO NC	NO	NO
IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
M8	M8	M8	M12 or pre-cabled	M12	M12 or pre-cabled (1)
XX512A1●	XX512A2●	XX●12A8●	XXV18B1●	XX518A1●	XX518A3● XXB18A3●
Please refer to our catalogue "Ultrasonic sensors OsiSense XX"					

–	1 m	1 m/2 m depending on model	8 m	50 cm	1 m/2 m dep. on model	8 m
–	–	1 m	–	–	–	–
61 cm/1 m	–	–	–	–	–	–
–	Adjustable using teach mode	Adjustable using teach mode		Adjustable using teach mode		
12...24 V $\overline{\text{---}}$ with protection against reverse polarity		12...24 V $\overline{\text{---}}$ with protection against reverse polarity			12...24 V $\overline{\text{---}}$ with protection against reverse polarity	
PNP/NPN	PNP	PNP or NPN	PNP/NPN or NPN or PNP	PNP or NPN	PNP or NPN	PNP
NO NC	NO or NC (selectable)	NO or NO + NC	NO + NO or NO + NC	NO + NC	NO	NO + NO
IP 67	IP 67	IP 67	IP 65 or IP 67 dep. on model	IP 67	IP 67	IP 67
M12	M12	M12	M12	M12	M12	M12
XX●18A3● XX●18A4●	XX●18●1PM12	XX6V3A1● XXBV3A1●	XX630A1● XX630A2● XX630S1●	XX630A3●	XX218A3●	XX230A1● XX230A2● XX230A3●
(2)	10	Please refer to our catalogue "Ultrasonic sensors OsiSense XX"				

Dimensions (mm)

Sensors with analogue output									
Cylindrical type									
Ø 18 (M12 x 1)					Ø 30 (M30 x 1.5)				
									

Sensing distance Sn	
Assured operating distance (mm)	
Power supply	
Type of output	
Degree of protection	
Connection	
Sensor type	
Page	

50 cm	1 m
Adjustable using teach mode	Adjustable using teach mode
12...24 V $\overline{\text{---}}$ with protection against reverse polarity	12...24 V $\overline{\text{---}}$ or 24 V $\overline{\text{---}}$, depending on model, with protection against reverse polarity,
4-20 mA or 0-10 V	4-20 mA or 0-10 V
IP 67	IP 67
M12	M12
XX918A3●	XX●18●1AM12 XX●18●1VM12
(2)	10

(1) XXB18A3●: M12 connector only.
(2) Please refer to our catalogue "Ultrasonic sensors OsiSense XX".

1 m (adjustable)	2 m (adjustable)	8 m (adjustable)
Adjustable using teach mode		
12...24 V $\overline{\text{---}}$ or 24 V $\overline{\text{---}}$, depending on model, with protection against reverse polarity		
4-20 mA or 0-10 V		
IP 67	IP 65 or IP 67, depending on model	
M12	M12	
XX9V3A1●	XX930A1● XX930S1●	XX930A2● XX930A3●
Please refer to our catalogue "Ultrasonic sensors OsiSense XX"		

Ultrasonic sensors
OsiSense XX
Flat format

Applications Detection of any object, without physical contact, irrespective of: material (metal, plastic, wood, cardboard, etc.), nature (solid, liquid, powder, etc.), colour, degree of transparency, etc.
Dimensions (mm)

Sensors with solid-state digital output			
Flat format			
7.6 x 19 x 33	16 x 30 x 74	18 x 33 x 60 + Ø 18 (M18 x 1)	80 x 80 x 34



	Sensing distance Sn	Diffuse
		Reflex
		Thru-beam
	Assured operating distance (mm)	
	Power supply	
	Type of output	
	Function	
	Degree of protection	
	Connection	
	Sensor type	
	Page	

10 cm	–	25 cm	–
–	–	–	–
–	20 cm	–	61 cm/1 m
6.4...100 fixed	–	51...250 fixed	–
12...24 V ̸ with protection against reverse polarity			
NPN or PNP	NPN/PNP	NPN or PNP	NPN/PNP
NO	NO NC	NO	NO + NO NC + NC
IP 67	IP 67	IP 67	IP 67
M12 connector on flying lead	M12 connector on flying lead	M12	M12
XX7F1A2●	XX●F1A8●	XX7K1A2●	XX●K1A3● XX● K1A4●
Please refer to our catalogue "Ultrasonic sensors OsiSense XX"			

50 cm (adjustable)	1 m (adjustable)
50 cm (adjustable)	1 m (adjustable)
–	–
Adjustable using teach mode	
12...24 V ̸ with protection against reverse polarity	
NPN or PNP	NPN or PNP
NO	NO
IP 67	IP 67
M12	M12
XX7V1A1●AM12 XXBV1A1PAM12	XX8D1A1●AM12 XXBD1A1PAM12
Please refer to our catalogue "Ultrasonic sensors OsiSense XX"	

Dimensions (mm)

Sensors with analogue output	
Flat format	
18 x 33 x 65 + Ø 18 (M18 x 1)	80 x 80 x 34

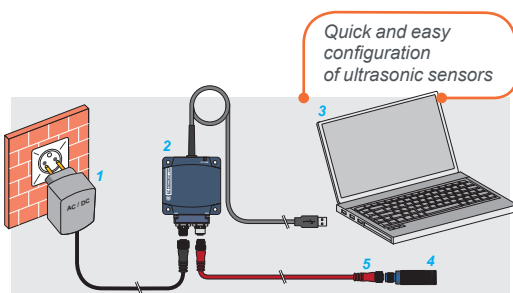


Sensing distance Sn
Assured operating distance (mm)
Power supply
Type of output
Degree of protection
Connection
Sensor type
Page

50 cm (adjustable)	
Adjustable using teach mode	
12...24 V --- with protection against reverse polarity	24 V --- with protection against reverse polarity
4-20 mA	0-10 V
IP 67	
M12	
XX9V1A1C2M12	XX9V1AF1M12
Please refer to our catalogue "Ultrasonic sensors OsiSense XX"	

1 m (adjustable)	
Adjustable using teach mode	
12...24 V --- with protection against reverse polarity	24 V --- with protection against reverse polarity
4-20 mA	0-10 V
IP 67	
M12	
XX9D1A1C2M12	XX9D1A1F1M12
Please refer to our catalogue "Ultrasonic sensors OsiSense XX"	

XX Configuration Software



- 1: Power supply, provided with 4 adapters
- 2: Configuration interface **XXZBOX01**
- 3: XX Configuration Software, installed on a PC
- 4: Ultrasonic sensor **XXS●●** or **XXA●●**
- 5: M12-M12 cable



Ultrasonic sensors configuration interface
XXZBOX01



Ultrasonic sensors configuration kit
XXZKIT01

Telemecanique Sensors is now offering a new solution for configuring ultrasonic OsiSense XX sensors. This software enables users to quickly find the optimal sensing solution for their applications. An interface unit connects the sensor to the PC via a USB connection.

> Easy configuration to unique applications

The configuration software has more than 20 parameters that can be modified to suit the machine application. The parameters can be saved in PDF format for quick, easy reference.

> Real-time sensor performance display

One of the best functions of the new software is the ability to troubleshoot and visualize the effects of the parameters on the configured sensor. The "echo display" function shows the exact position of any false echoes. The recording function can record the values of the echoes in an .xlsx or .xml file for extended periods of time.

> Quick duplication of programmed settings

Optimal parameters set on one sensor can be saved and loaded on other units of the same reference. This function reduces time and effort.

> The interface can be used to configure specific configurable models of OsiSense XX ultrasonic sensors (**XXS●●** & **XXA●●**).

XX Configuration Software for ultrasonic sensors

> XX Configuration Software is available in English, French, German, Spanish, Italian, and Chinese. It can be installed using the setup file in the USB key provided with the configuration kit or downloaded directly from the website www.tesensors.com.

> Recommended PC performance:

- > Windows OS: 7 SP1 (x86 & x64), 8.1 (x86 & x64), or 10 (x86 & x64)
- > Internet Explorer: 6.0 or higher
- > Disk space: 800 MB or higher
- > RAM memory: 2 GB or higher
- > Processor speed: 1 GHz or higher
- > Display resolution: 1360 x 768 or higher

References

Description	Reference	Weight kg
Ultrasonic sensors configuration interface		
Configuration interface provided with:	XXZBOX01	0.400
1 power supply (1)		
1 UK adapter		
1 SAA adapter		
1 US adapter		
1 EU adapter		
Ultrasonic sensors configuration kit		
Plastic case including:	XXZKIT01	1.200
1 configuration interface XXZBOX01		
1 power supply (1)		
1 UK adapter		
1 SAA adapter		
1 US adapter		
1 EU adapter		
1 cable of 1 m, with M12 connectors (5-pin male/female)		
1 USB Flash Drive/USB key, including: the setup file for XX Configuration Software, ReadMe file, instruction sheet, tutorial, and the OsiSense XX catalog.		

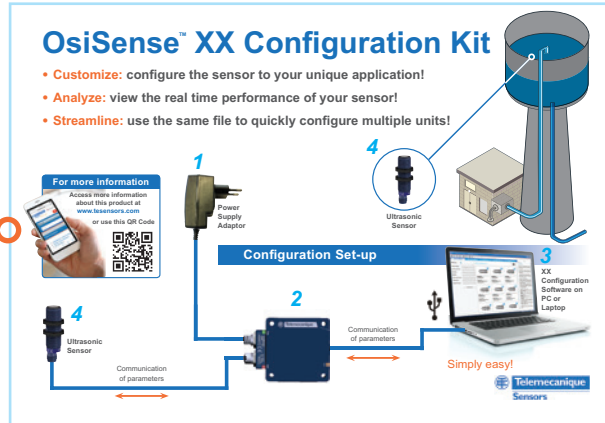
(1) Power supply: 24 V $\overline{\text{---}}$, 0.5 A min., with M12 connector.

Configuration software presentation

Principle



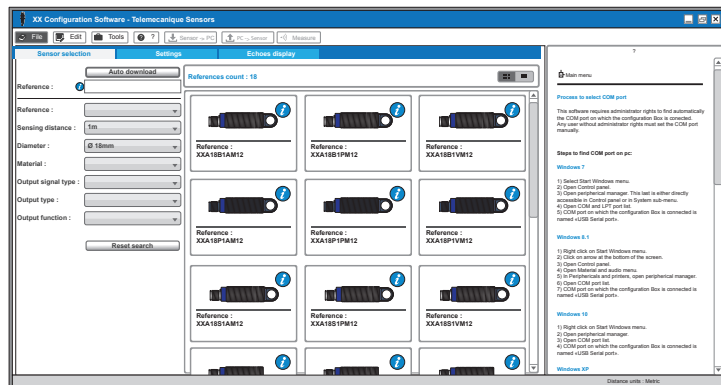
- 1: Power supply, provided with 4 adapters
- 2: Configuration interface **XXZBOX01**
- 3: XX Configuration Software, installed on a PC
- 4: Ultrasonic sensor **XXS●●** or **XXA●●**



Setting examples

Sensor selection

- > This page is used to manually select or auto-download the XX reference sensor to be configured. Once a reference has been selected, the user can start the configuration process.
- > There are 4 methods of selection.
 - 1: Direct selection from the full reference list
 - 2: Selection through reference
 - 3: Manual search using criteria
 - 4: Automatic sensor detection



Detection settings

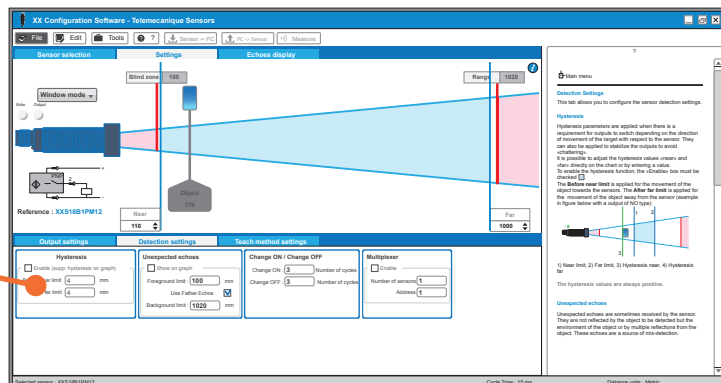
- > This tab is used to configure the sensor detection settings.

☐ Enable (supp. hysteresis on graph)
 Before near limit mm
 After far limit mm

☐ Show on graph
 Foreground limit: mm
 Use Father Echoes ☒
 Background limit: mm

Change ON / Change OFF
 Change ON: Number of cycles
 Change OFF: Number of cycles

Multiplexer
☐ Enable
 Number of sensors:
 Address:



Output settings

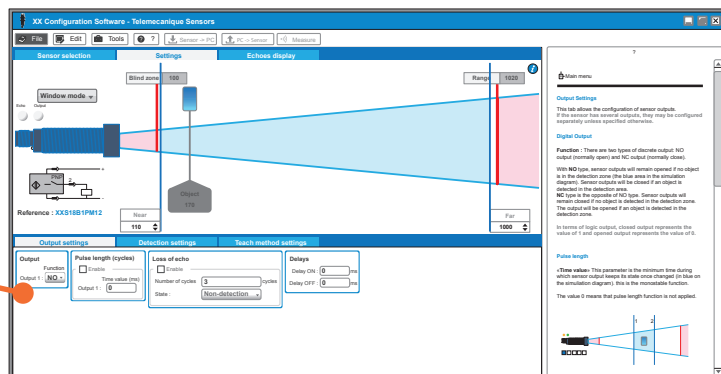
- > This page enables the configuration of sensor outputs. If the sensor has several outputs, they may be configured separately, unless specified otherwise.

Output
 Function
 Output 1:

Pulse length (cycles)
☐ Enable
 Time value (ms)
 Output 1:

Loss of echo
☐ Enable
 Number of cycles:
 State:

Delays
 Delay ON: ms
 Delay OFF: ms



Configuration software presentation (continued)

Setting examples (continued)

Teach method settings

- > This tab allows the configuration of the pushbutton for manual teaching. Depending on the sensor reference, the teach button is either integrated in the sensor or available through the teach pushbutton **XXZPB100** (see page 10).

Pushbutton settings

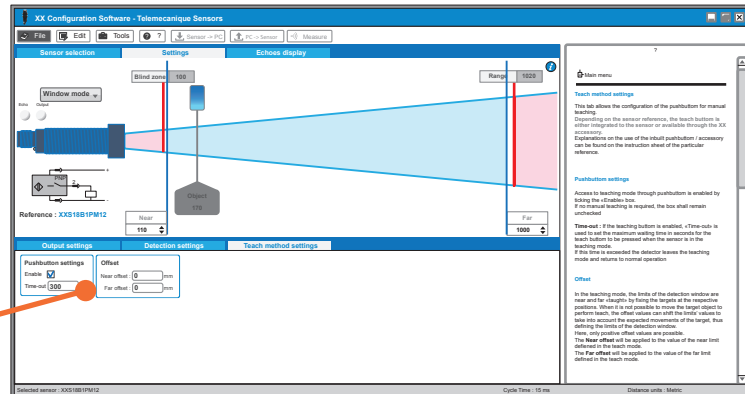
Enable ☒

Time-out $\frac{1}{10}$ s

Offset

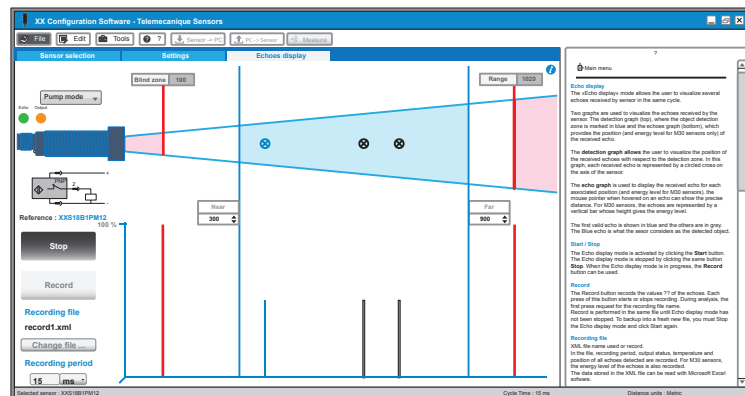
Near offset: mm

Far offset: mm



Echo display mode

- > With the "echo display" mode, the user can visualize several echoes received by the sensor in the same cycle.
- > The first valid echo is shown in blue and the others in gray. The blue echo is what the sensor considers as the detected object.
- > It is also possible to record the data over extended periods of time using the "record" function.



Measure mode

- > The "measure" button opens a pop-up window giving a real-time numerical display of the position of the object in mm or inches.



Characteristics

Supply characteristics

Rated supply voltage (Ue) with protection against reverse polarity	V	24 V $\pm$
Voltage limits	V	14...30 V $\pm$ (ripple: 10% max)
Consumption	W	4 (consumption excluding sensor)

LED indicators

LED indicators	Power supply	Green LED
	PC communication	Orange LED
	Error	Red LED

Communication

Data communication baud rate	bps	19,200
-------------------------------------	------------	--------

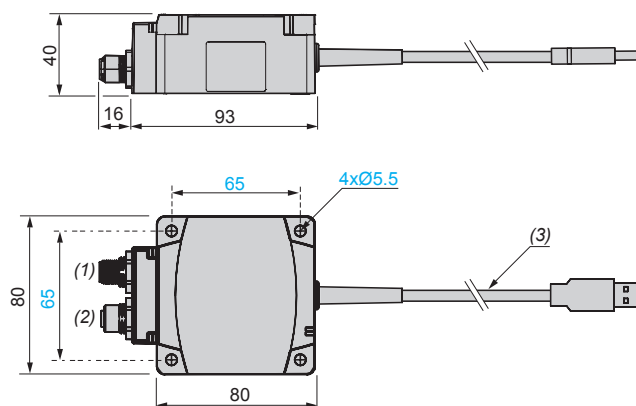
Connection

Maximum cabling distance between sensor and interface	m	3
Electrical connection to sensor		M12 female connector
Connection to PC or laptop		0.5 m USB cable , A type connector

Environment characteristics

Compliance to regulations		CE
Degree of protection Conforming to IEC 60529		IP 40
Storage temperature	°C	-20...+45
Operating temperature	°C	0...+45
Relative humidity		< 95%, without condensation

Dimensions



- (1) Male M12 connector, 5-pin: power supply
(2) Female M12 connector, 5-pin: sensor
(3) Cable length: 0.5 m (USB cable A type connector): PC

Connections

Interface connector for power supply adapter (M12 male)

	Pin number	Wire color	Description
4	1	BN: Brown	+14...30 V $\pm$
3	2	WH: White	Output 2 (4) (5)
5	3	BU: Blue	0 V $\pm$
1	4	BK: Black	Output 1 (4)
2	5	—	Not used (6)

Interface connector for sensor (M12 female)

	Pin number	Description
3	1	Power out to sensor
4	2	Software communication
5	3	0 V $\pm$
1	4	Software communication
2	5	Not used (6)

(4) Output is only active during the "echo display" mode and "measure" mode.

(5) Output 2 is not available on all sensors.

(6) The 5th pins of the M12 male and M12 female connectors are electrically connected to one another.

Ultrasonic sensors

OsiSense XX, General purpose

Cylindrical, plastic or metal, Ø 18 mm

Diffuse system, solid-state digital or analog output

Configurable by software



XXA18P1-M12



XXS18P1-M12



XXA18B1-M12
XXA18S1-M12



XXS18B1-M12
XXS18S1-M12



XXZPB100

Ultrasonic sensors

Sensors with solid-state digital output, M12 connector

Sensors	Sensing distance (Sn) Adjustable m	Function/output	Sensing axis	Reference	Weight kg
Ø 18 Plastic	1	NO or NC (1)/ PNP	Straight	XXS18P1PM12	0.033
			90° angled	XXA18P1PM12	0.040
Ø 18 Nickel-plated brass	1	NO or NC (1)/ PNP	Straight	XXS18B1PM12	0.050
			90° angled	XXA18B1PM12	0.055
Ø 18 Stainless steel 316L	1	NO or NC (1)/ PNP	Straight	XXS18S1PM12	0.050
			90° angled	XXA18S1PM12	0.055

Sensors with analog output, M12 connector

Sensors	Sensing distance (Sn) Adjustable m	Analog output (2)	Sensing axis	Reference	Weight kg
Ø 18 Plastic	1	4-20 mA	Straight	XXS18P1AM12	0.033
		0-10 V	Straight	XXS18P1VM12	0.033
		4-20 mA	90° angled	XXA18P1AM12	0.040
		0-10 V	90° angled	XXA18P1VM12	0.040
Ø 18 Nickel-plated brass	1	4-20 mA	Straight	XXS18B1AM12	0.050
		0-10 V	Straight	XXS18B1VM12	0.050
		4-20 mA	90° angled	XXA18B1AM12	0.055
		0-10 V	90° angled	XXA18B1VM12	0.055
Ø 18 Stainless steel 316L	1	4-20 mA	Straight	XXS18S1AM12	0.050
		0-10 V	Straight	XXS18S1VM12	0.050
		4-20 mA	90° angled	XXA18S1AM12	0.055
		0-10 V	90° angled	XXA18S1VM12	0.055

Accessories

Description	For use with sensor	Reference	Weight kg
Teach pushbutton Input: M12 female connector Output: M12 male connector	XXS18●● XXA18●●	XXZPB100	0.035

Configuration interface and configuration kit for the synchronization function

See pages 6 to 9.

(1) Output function (NO or NC) and mode (window, reflex, proximity, pump) are selectable using the XXZPB100 remote teach pushbutton.

(2) Selectable using the XXZPB100 remote teach pushbutton.

Ultrasonic sensors

OsiSense XX, General purpose

Cylindrical, plastic or metal, Ø 18 mm

Diffuse system, solid-state digital or analog output

Configurable by software



XZCPV11V12L●●



XZCPV12V12L●●



XZCP1141L●



XZCP1241L●



XZCC12FDM50B



XZCC12FCM50B



XXZB118

Accessories (continued)

Description	Type	Length m	Reference	Weight kg
Connection accessories for synchronization function				
Pre-wired connector 5-pin, 5-wire female M12 connector/ bare wires PVC cable	Straight	2	XZCPV11V12L2	0.090
		5	XZCPV11V12L5	0.201
		10	XZCPV11V12L10	0.360
	Elbowed	2	XZCPV12V12L2	0.090
		5	XZCPV12V12L5	0.201
		10	XZCPV12V12L10	0.360

Connection accessories without synchronization function

Pre-wired connector 5-pin, 4-wire female M12 connector/ bare wires PVC cable	Straight	2	XZCP1141L2	0.090
		5	XZCP1141L5	0.190
		10	XZCP1141L10	0.370
	Elbowed	2	XZCP1241L2	0.090
		5	XZCP1241L5	0.190
		10	XZCP1241L10	0.370
Female M12 connector 5-pin, Pg 7 cable gland	Straight	–	XZCC12FDM50B	0.020
	Elbowed	–	XZCC12FCM50B	0.020

Mounting accessory

Description	For use with sensor	Reference	Weight kg
Fixing clamp (1)	XXS18●● XXA18●●	XXZB118	0.010

(1) Recommended to use in applications below 0°C.

Ultrasonic sensors

OsiSense XX, General purpose

Cylindrical, plastic or metal, Ø 18 mm

Diffuse system, solid-state digital or analog output

Configurable by software

Sensor type		XX●18●1PM12	XX●18●1AM12	XX●18●1VM12	
General characteristics					
Conformity to standards			EN/IEC 60947-5-2, UL 508, and CSA C22.2 n°14		
Compliance with regulations			CE (based on EMC directive 2014/30/EU), NEC (ANSI/NFPA 70), CEC (CSA C22), UNECE R10		
Product certifications			cULus with class 2 power supply, E2, EAC, RCM , and ECOLAB		
Nominal sensing distance (Sn)		m	1 (adjustable)		
Blind zone (in diffuse mode the object is not detected in this zone)		m	0.105		
Detection window			Remotely adjustable or by using external teachbutton XXZPB100		
Transmission frequency (transmitter resonance)		kHz	200		
Differential travel		mm	4	—	—
Repeat accuracy (repeatability)			0.1 %		
Minimum size of object to be detected			Cylinder Ø 1 mm up to sensing distance of 0.6 m		
Tilt angle with 100 x 100 mm target			± 7° at 1 m, ± 35° at 0.5 m		
Materials	Case		XX●18P●●: PBT XX●18B●●: Nickel-plated brass XX●18S●●: Stainless steel 316L		
	Sensing face		Epoxy, resin, and rubber		
Connection			M12 connector - 5-pin		
Supply characteristics					
Rated supply voltage (Ue) with protection against reverse polarity		V	12...24 V —		24 V —
Voltage limits (including ripple)		V	10...30 V —	10...30 V —	14...30 V —
Current consumption, no-load		mA	< 30	< 30	< 30
Output characteristics					
LED indicators	Output state		Yellow LED	Yellow LED	Yellow LED
	Echo state		Green LED	Green LED	Green LED
Switching capacity (with overload and short-circuit protection)			< 100 mA	—	—
Resistive load impedance		Ω	—	12 V —: load ≤ 250 Ω 24 V —: load ≤ 850 Ω	≥ 1 kΩ
Voltage drop		V	< 2	—	—
Internal temperature compensation			Yes	Yes	Yes
Maximum switching frequency		Hz	11	—	—
Delays	First-up	ms	120	180	180
	Response	ms	45	—	—
	Recovery	ms	45	100	100
Environment characteristics					
Degree of protection	Conforming to IEC 60529 and EN/IEC 60947-5-2		IP 65, IP 67		
Storage temperature		°C	- 40...+ 80		
Operating temperature		°C	- 25...+ 70 (1)		
Relative humidity			< 95%, without condensation		
Vibration resistance	Conforming to IEC 60068-2-6		Amplitude ± 1 mm (f = 10...55 Hz)		
Mechanical shock resistance	Conforming to IEC 60068-2-27		30 gn, duration 11 ms, in all 3 axes		
Resistance to electromagnetic interference			Conforming to EN/IEC 60947-5-2 and UNECE R10-05		

(1) For applications below 0°C, it is recommended to use the **XXZB118** fixing clamp (see page 11).

Ultrasonic sensors

OsiSense XX, General purpose

Cylindrical, plastic or metal, Ø 18 mm

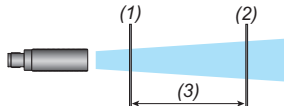
Diffuse system, solid-state digital or analog output

Configurable by software

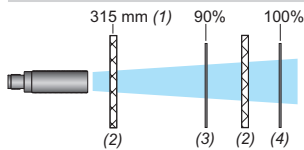
Operating diagrams for digital output sensors

Settings with teach procedure

Window mode



Reflex mode



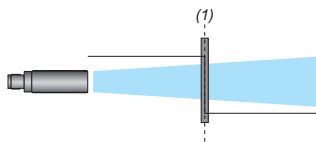
(1) In reflex mode, the position of the reflector must be at least 315 mm away from the sensor.

(2): Reflector

(3): Near limit

(4): Far limit

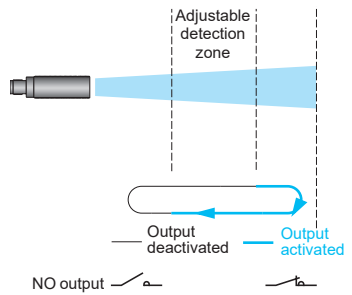
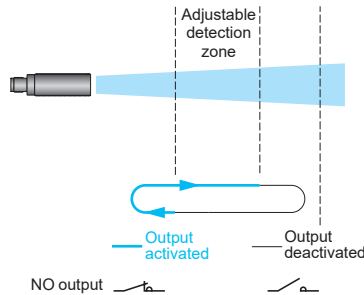
Proximity mode



Pump/Hysteresis mode

Emptying (stored in high threshold memory)

Filling (stored in low threshold memory)



Operating diagram for analog output sensors

Near and far limits setting with teach procedure

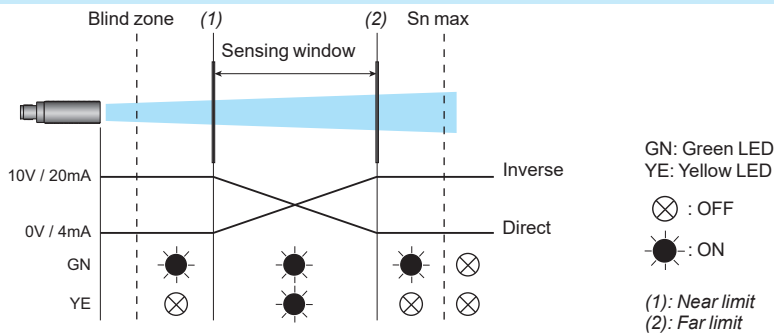
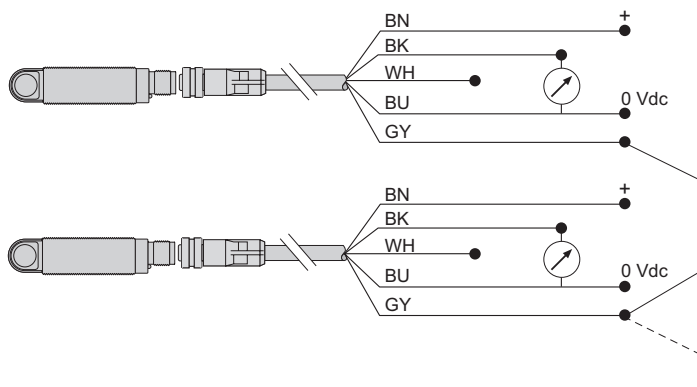


Diagram for the synchronization function (side by side application)



NB: To enable synchronization between several sensors, all of the wires of pin no. 5 (gray) must be electrically connected together.

A maximum of 8 sensors can be synchronized. To enable "Multiplexer" function for the sensors, use the XX Configuration Software.

Without synchronization or multiplexing, the sensors must be at least 50 cm away from each other in order to avoid mutual interference.

Ultrasonic sensors

OsiSense XX, General purpose

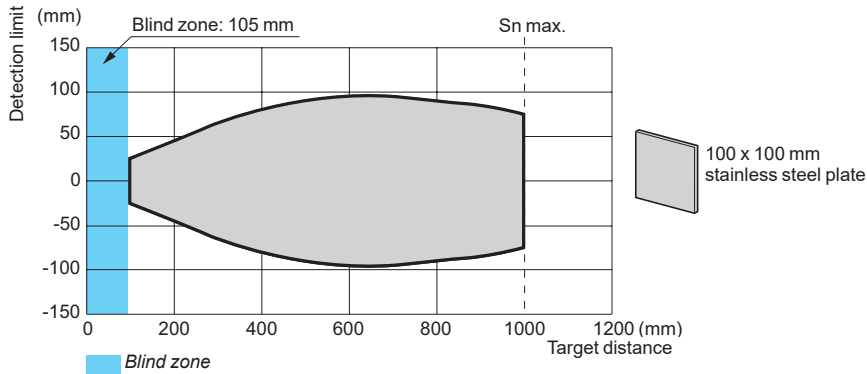
Cylindrical, plastic or metal, Ø 18 mm

Diffuse system, solid-state digital or analog output

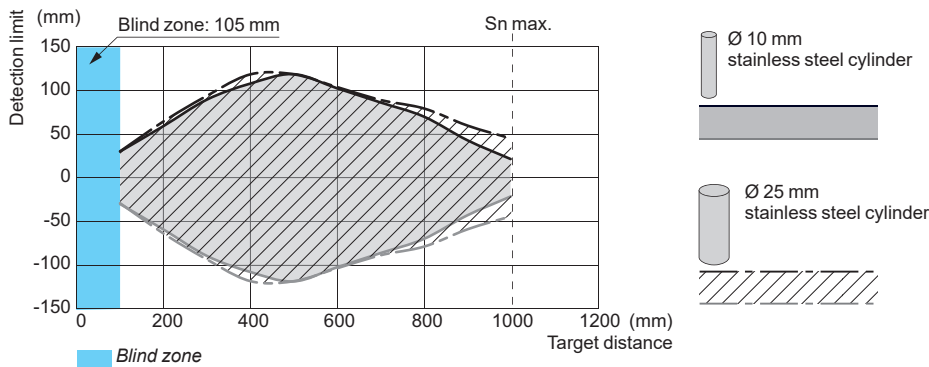
Configurable by software

Curves

Detection curve with 100 x 100 mm square target



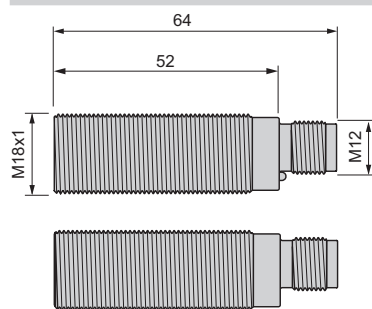
Detection curve with round bar



Dimensions

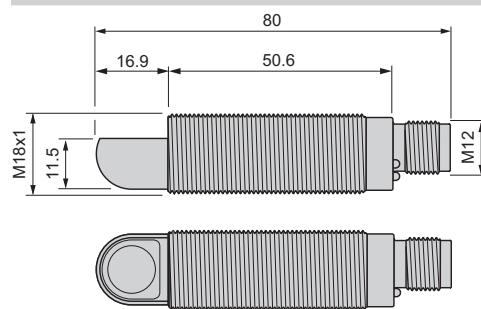
Plastic sensors, straight

XXS18P1•M12



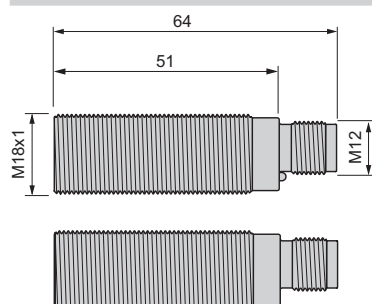
Plastic sensors, 90° angled

XXA18P1•M12



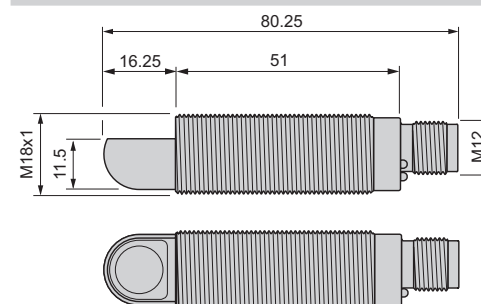
Nickel-plated brass and stainless steel sensors, straight

XXS18B1•M12 and XXS18S1•M12



Nickel-plated brass and stainless steel sensors, 90° angled

XXA18B1•M12 and XXA18S1•M12



Ultrasonic sensors

OsiSense XX, General purpose

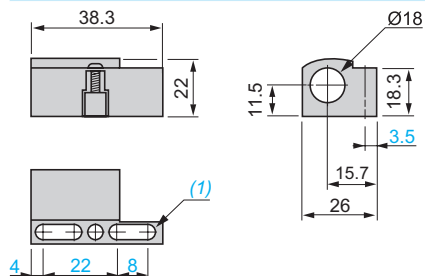
Cylindrical, plastic or metal, Ø 18 mm

Diffuse system, solid-state digital or analog output

Configurable by software

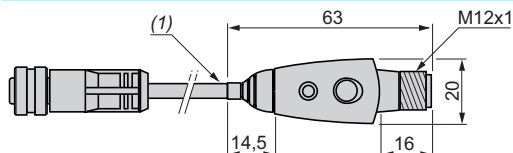
Dimensions (continued)

Fixing clamp XXZB118



(1) 2 elongated holes Ø 4 X 8 mm

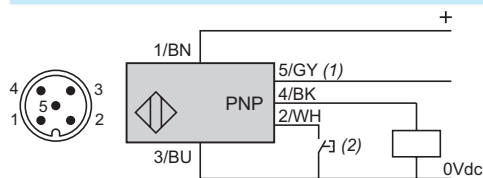
Teach pushbutton XXZPB100



(1) Cable length: 152 mm

Connections

Connector wiring



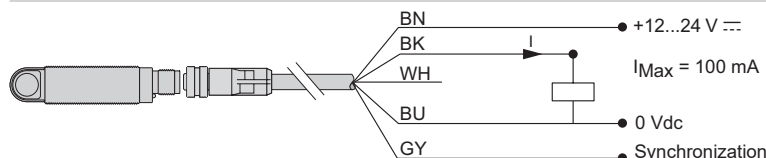
Pin number	Wire color	Digital output description	Analog output description	
			4-20 mA	0-10 V
1	BN: Brown	+12...24 V $\overline{\text{---}}$	+12...24 V $\overline{\text{---}}$	+14...24 V $\overline{\text{---}}$
2	WH: White	Input teach		
3	BU: Blue	0 V $\overline{\text{---}}$		
4	BK: Black	Output		
5	GY: Gray	Synchronization		

(1) Synchronization.

(2) External setting pushbutton or XXZPB100 remote teach pushbutton (see page 10).

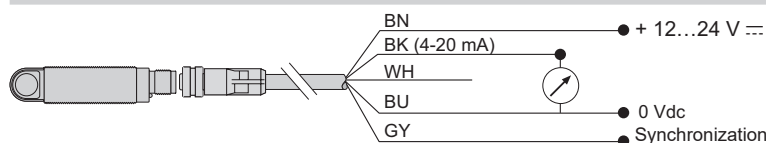
Wiring scheme (digital output NO or NC)

XXS18•1PM12 and XXA18•1PM12



Wiring scheme (analog output 4-20 mA)

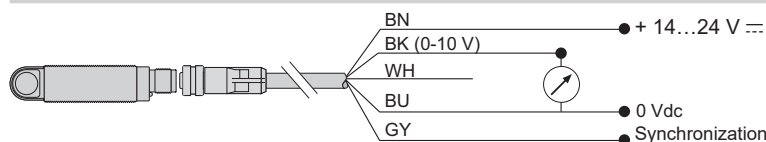
XXS18•1AM12 and XXA18•1AM12



4-20 mA:
□ For 12 V $\overline{\text{---}}$, load $\leq 250 \Omega$
□ For 24 V $\overline{\text{---}}$, load $\leq 850 \Omega$

Wiring scheme (analog output 0-10 V)

XXS18•1VM12 and XXA18•1VM12



0-10 V:
1 k Ω ... ∞

X	
XXA18B1AM12	10
XXA18B1PM12	10
XXA18B1VM12	10
XXA18P1AM12	10
XXA18P1PM12	10
XXA18P1VM12	10
XXA18S1AM12	10
XXA18S1PM12	10
XXA18S1VM12	10
XXS18B1AM12	10
XXS18B1PM12	10
XXS18B1VM12	10
XXS18P1AM12	10
XXS18P1PM12	10
XXS18P1VM12	10
XXS18S1AM12	10
XXS18S1PM12	10
XXS18S1VM12	10
XXZB118	11
XXZBOX01	6
XXZKIT01	6
XXZPB100	10
XZCC12FCM50B	11
XZCC12FDM50B	11
XZCP1141L2	11
XZCP1141L5	11
XZCP1141L10	11
XZCP1241L2	11
XZCP1241L5	11
XZCP1241L10	11
XZCPV11V12L2	11
XZCPV11V12L5	11
XZCPV11V12L10	11
XZCPV12V12L2	11
XZCPV12V12L5	11
XZCPV12V12L10	11

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