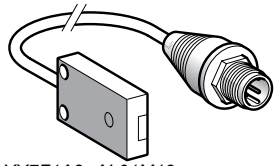
Ultrasonic sensors

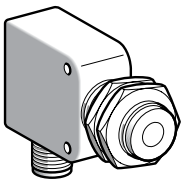
OsiSense XX, General purpose
Flat format, plastic
DC supply, solid-state output

564439



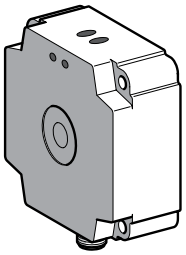
XX7F1A2●AL01M12

564441



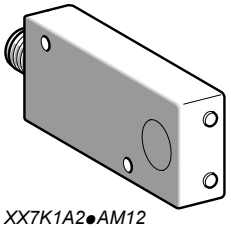
XX7V1A1●AM12
XXBV1A1PAM12

DF537726



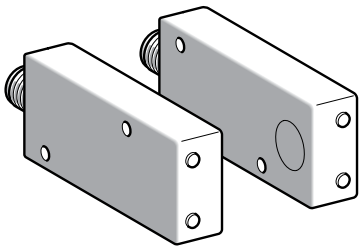
XX8D1A1●AM12
XXBD1A1PAM12

564440



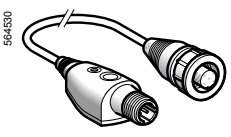
XX7K1A2●AM12

DF504425



XX7K1A2●AM12 + XX7K1A2●AM12 (thru-beam system)

564530



XXZPB100

Diffuse system

Fixed sensing distance sensors

Sensors	Sensing distance (Sn)	Function/output	Connection	Reference	Weight
mm	m				kg
7.6 x 19 x 33	0.10	NO/NPN	152 mm flying lead + M12 connector	**XX7F1A2NAL01M12**	0.040
		NO/PNP	152 mm flying lead + M12 connector	**XX7F1A2PAL01M12**	0.040
16 x 30 x 74	0.25	NO/NPN	M12 connector	**XX7K1A2NAM12**	0.050
		NO/PNP	M12 connector	**XX7K1A2PAM12**	0.050

Adjustable sensing distance sensors

Sensors	Sensing distance (Sn)	Function/output	Connection	Reference	Weight
mm	m				kg
18 x 33 x 60 + Ø 18	0.50 (adjustable)	NO/NPN	M12 connector	**XX7V1A1NAM12**	0.060
		NO/PNP	M12 connector	**XX7V1A1PAM12**	0.060
80 x 80 x 34	1 (adjustable)	NO/NPN	M12 connector	**XX8D1A1NAM12**	0.300
		NO/PNP	M12 connector	**XX8D1A1PAM12**	0.300

Reflex system

Adjustable sensing distance sensors

Sensors	Sensing distance (Sn)	Function/output	Connection	Reference	Weight
mm	m				kg
18 x 33 x 60 + Ø 18	0.50 (adjustable)	NO/PNP	M12 connector	**XXBV1A1PAM12**	0.060
80 x 80 x 34	1 (adjustable)	NO/PNP	M12 connector	**XXBD1A1PAM12**	0.300

Thru-beam system

Sensors	Sensing distance (Sn)	Function/output	Connection	Reference	Weight
mm	m				kg
7.6 x 19 x 33					
Transmitter	0.20		152 mm flying lead + M12 connector	**XXTF1A8M12L**	0.030
Receiver	0.20	NO/PNP + NO/NPN	152 mm flying lead + M12 connector	**XXRF1A8KAM12L**	0.030
		NC/PNP + NC/NPN	152 mm flying lead + M12 connector	**XXRF1A8KBM12L**	0.030
16 x 30 x 74					
Transmitter	0.61		M12 connector	**XXTK1A3M12**	0.060
Receiver	0.61	NO/PNP + NO/NPN	M12 connector	**XXRK1A3KAM12**	0.060
		NC/PNP + NC/NPN	M12 connector	**XXRK1A3KBM12**	0.060
Transmitter	1		M12 connector	**XXTK1A4M12**	0.060
Receiver	1	NO/PNP + NO/NPN	M12 connector	**XXRK1A4KAM12**	0.060
		NC/PNP + NC/NPN	M12 connector	**XXRK1A4KBM12**	0.060

Accessories

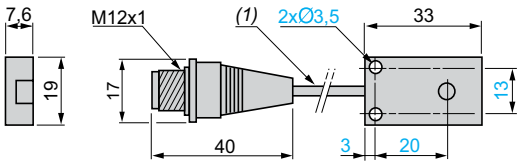
Description	For use with sensor	Reference	Weight kg
Teach pushbutton **Selection of detection window** **Length of cable:** 152 mm **Input:** M12 female connector **Output:** M12 male connector	XX7V1A1●AM12, XX8D1A1●AM12, XXBV1A1●AM12 and XXBD1A1●AM12	**XXZPB100**	0.035

Other connection and fixing accessories

See page 24.

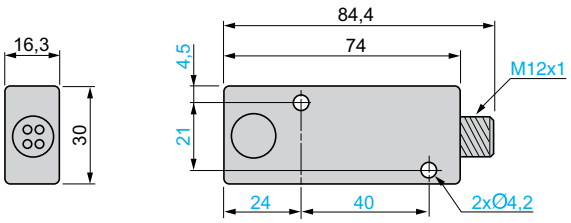
Dimensions

XX7F1A2●AL01M12
XXTF1A8●/XXR F1A8●

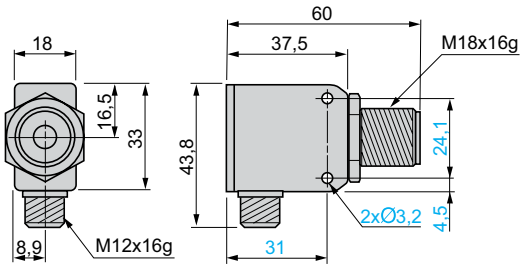


(1) Cable, length: 152 mm.

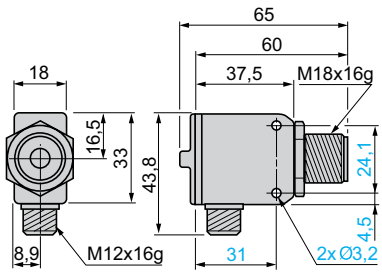
XX7K1A2●AM12
XXTK1A3●/A4●, XXRK1A3●/A4●



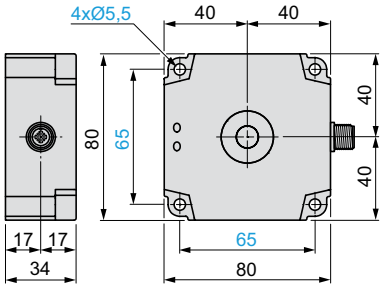
XX7V1A1●AM12
XXBV1A1●AM12



XX9V1A1●●M12

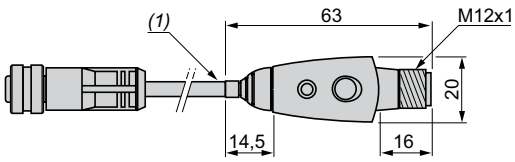


XX8D1A1●AM12
XXBD1A1●AM12
XX9D1A1●●AM12



XXZPB100

Teach pushbutton



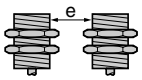
(1) Cable, length: 152 mm.

Setting-up precautions

Minimum mounting distances

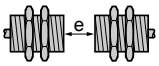
Diffuse sensors, cylindrical type

Side by side



e: respect the distances indicated on the detection curves

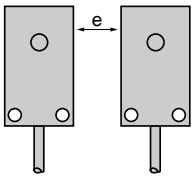
Face to face



e ≥ 4 x Sn

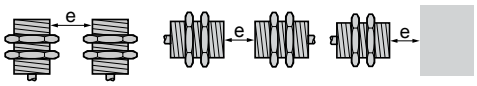
Diffuse sensors, flat format

Side by side



e: respect the distances indicated on the detection curves

XXV18●

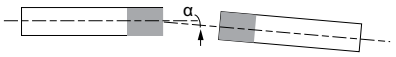


e > 25 mm

e > 700 mm

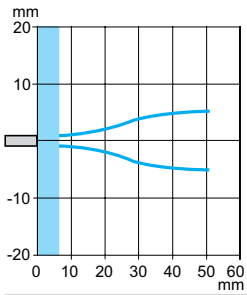
e > 60 mm

Thru-beam sensors

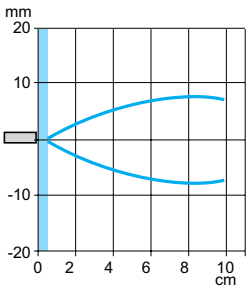


Sensors	α
XX●12●●/XX●F1●●	±5°
XX●18A3●●/XX●K1A3●●●	±8°
XX●18A4●●/XX●K1A4 XX●18A2●●/XX●K1A2	±10°

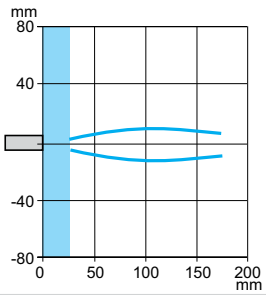
XX512A1KAM8



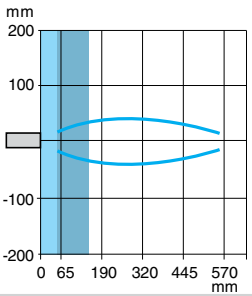
XX512A2●NAM8



XX518A1KAM12

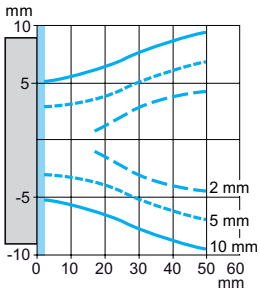


XX218A3●●M12, XX518A3●●L2, XXB18A3●AM12, XX518A3●AM12 XX7V1A1●AM12, XXBV1A1●AM12 XX918A3●●M12, XX9V3A1●●M12

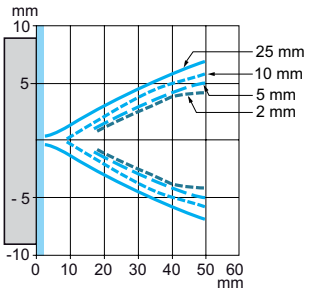


XXV18B1●

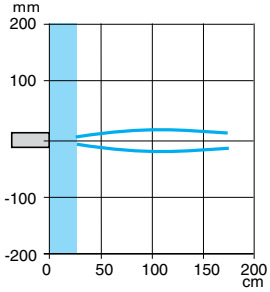
Square object



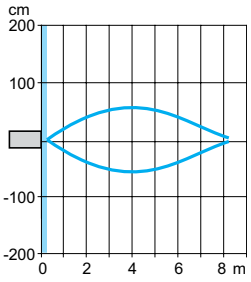
Cylindrical object



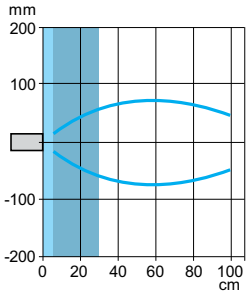
XX630A2●CM12



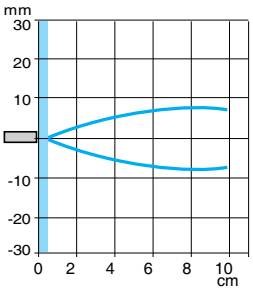
XX630A3●CM12 XX930A3●●M12



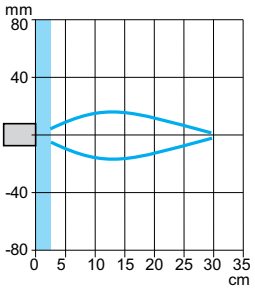
XX230A1●, XX630A1●CM12, XX6V3A1●AM12, XXBV3A1●AM12, XX930A1●●M12, XX9V3A1●●M12, XX8D1A1●AM12, XXBD1A1●AM12



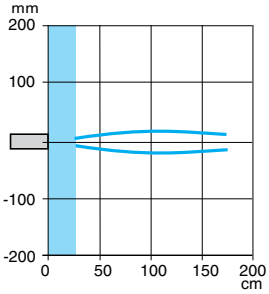
XX7F1A2● AL01M12



XX7K1A2● AM12



XX230A2●



Blind zone for diffuse sensors.

Blind zone for reflex sensors.

General: pages 8 to 13
References: pages 14 to 22
Characteristics: page 15 to 23
Dimensions: pages 26 and 27
Schemes: pages 28 and 29

Product reference index