

Fast troubleshooting guide *(continued)*

Problem	Possible causes	Remedy
No detection following a period of service	Vibration, shock	<ul style="list-style-type: none"> ■ Realign the system ■ Replace the support or protect the sensor.
	Deterioration of relay contact	<ul style="list-style-type: none"> ■ On an inductive load, use an RC suppressor connected in parallel with the load. ■ To eliminate contact contamination, the minimum current recommended is 15 mA. ■ Relay output models are not recommended for fast counting of objects since their service life is too short. Use models with a solid-state output.
	Dusty atmosphere	<ul style="list-style-type: none"> ■ Clean the lenses and reflector with a soft cloth.

Notes:

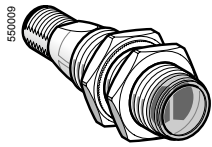
- **Sensors with a test input** enable automatic verification of their correct operation.
- **Sensors with an alarm output** enable the operator to be informed, for preventive maintenance purposes, that the operating limits of sensors have been reached (dirty etc.).

Photo-electric sensors

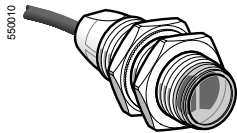
OsiSense XU, single mode function

Design 18, plastic

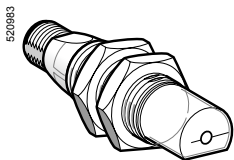
Three-wire DC, solid-state output



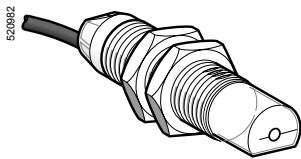
XUB●A●●NM12



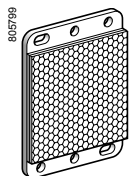
XUB●A●●NL2



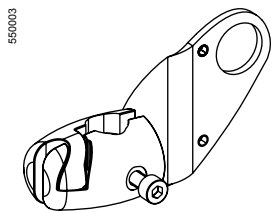
XUB●A●●WM12



XUB●A●●WL2



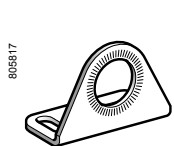
XUZY50



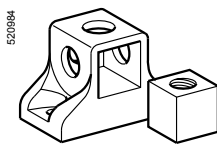
XUZY2003



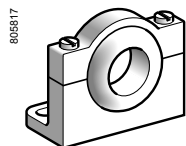
XUZY2001



XUZY118



XUZY2003



XUZY218

Connector

Sensing distance (Sn) m	Function	Output	Line of sight	Reference	Weight kg
Diffuse system					
0.1	NO	PNP	Along case axis	XUB4APANM12	0.040
			90° to case axis	XUB4APAWM12	0.040
	NPN	PNP	Along case axis	XUB4ANANM12	0.040
			90° to case axis	XUB4ANAWM12	0.040
	NC	PNP	Along case axis	XUB4APBNM12	0.040
			90° to case axis	XUB4APBWM12	0.040
NPN	PNP	Along case axis	XUB4ANBNM12	0.040	
		90° to case axis	XUB4ANBWM12	0.040	

Diffuse system with adjustable sensitivity

0.6	NO	PNP	Along case axis	XUB5APANM12	0.045
			90° to case axis	XUB5APAWM12	0.050
	NPN	PNP	Along case axis	XUB5ANANM12	0.045
			90° to case axis	XUB5ANAWM12	0.050
	NC	PNP	Along case axis	XUB5APBNM12	0.045
			90° to case axis	XUB5APBWM12	0.050
NPN	PNP	Along case axis	XUB5ANBNM12	0.045	
		90° to case axis	XUB5ANBWM12	0.050	

Polarised reflex system

2	NO	PNP	Along case axis	XUB9APANM12	0.040
			90° to case axis	XUB9APAWM12	0.040
	NPN	PNP	Along case axis	XUB9ANANM12	0.040
			90° to case axis	XUB9ANAWM12	0.040
	NC	PNP	Along case axis	XUB9APBNM12	0.040
			90° to case axis	XUB9APBWM12	0.040
NPN	PNP	Along case axis	XUB9ANBNM12	0.040	
		90° to case axis	XUB9ANBWM12	0.040	

Reflector 50 x 50 mm	-	-	-	XUZC50	0.020
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Reflex system

4	NO	PNP	Along case axis	XUB1APANM12	0.040
			90° to case axis	XUB1APAWM12	0.040
	NPN	PNP	Along case axis	XUB1ANANM12	0.040
			90° to case axis	XUB1ANAWM12	0.040
	NC	PNP	Along case axis	XUB1APBNM12	0.040
			90° to case axis	XUB1APBWM12	0.040
NPN	PNP	Along case axis	XUB1ANBNM12	0.040	
		90° to case axis	XUB1ANBWM12	0.040	

Reflector 50 x 50 mm	-	-	-	XUZC50	0.020
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Thru-beam system

Transmitter 15	-	-	Along case axis	XUB2AKSNM12T	0.040
			90° to case axis	XUB2AKSWM12T	0.040
Receiver 15	NO	PNP	Along case axis	XUB2APANM12R	0.040
			90° to case axis	XUB2APAWM12R	0.040
	NPN	PNP	Along case axis	XUB2ANANM12R	0.040
			90° to case axis	XUB2ANAWM12R	0.040
	NC	PNP	Along case axis	XUB2APBNM12R	0.040
			90° to case axis	XUB2APBWM12R	0.040
NPN	PNP	Along case axis	XUB2ANBNM12R	0.040	
		90° to case axis	XUB2ANBWM12R	0.040	

Fixing accessories (1)

Description	Reference	Weight kg
3D fixing kit for use on M12 rod, for XUB or XUZY50	XUZY2003	0.170
M12 rod	XUZY2001	0.050
Support for M12 rod	XUZY2003	0.150
Stainless steel fixing bracket	XUZY118	0.045
Plastic fixing bracket with adjustable ball-joint	XUZY218	0.035

Pre-cabled

For a pre-cabled sensor, replace **M12** by **L2** for a 2 m long cable, or by **L5** for a 5 m long cable. Example: **XUB1APANM12** becomes **XUB1APANL2** for a 2 m long cable and **XUB1APANL5** for a 5 m long cable.

For availability, please consult our Customer Care Centre.

(1) For further information, see page 164.