

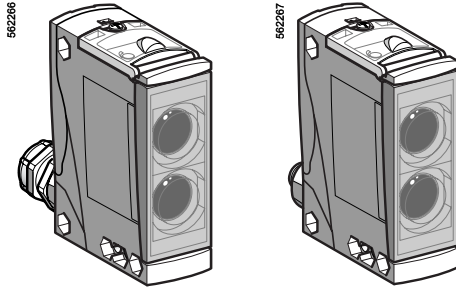
Photo-electric sensors

Osiris® Universal, Osiconcept®⁽¹⁾

Compact design

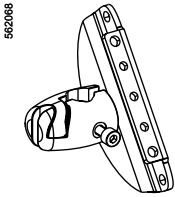
Five-wire, a.c. or d.c. supply, 1 NC/NO relay output

Three-wire, d.c. supply, solid-state output

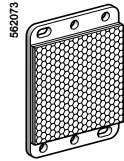


XUX 0ARCTT16

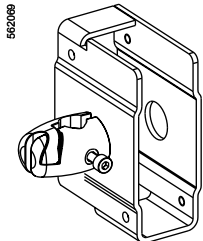
XUX 0AKSAM12



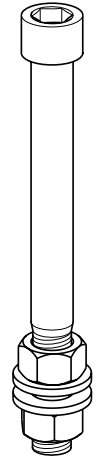
XUZ X2003



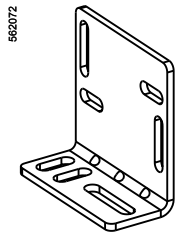
XUZ C50



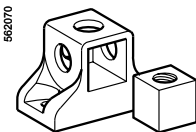
XUZ X2004



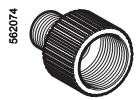
XUZ 2001



XUZ X2000



XUZ 2003



XUZ X2001

References

d.c. supply

Sensing distance (Sn) m	Function	Output	Connection (pre-cabled or connector)	Reference	Weight kg
0...40 depending on whether accessories are used	N/O or N/C using Osiconcept programming	PNP/NPN	Screw terminals – ISO 16 cable gland (3)	XUX 0AKSAT16	0.200
			M12 connector	XUX 0AKSAM12	0.200

Accessories

Description	Connection (pre-cabled or connector)	Reference	Weight kg
Thru-beam accessories (transmitter)	Screw terminals – ISO 16 cable gland (3)	XUX 0AKSAT16T	0.200
	M12 connector	XUX 0AKSAM12T	0.200

Reflector 50 x 50 mm	–	XUZ C50	0.020
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d.c. or a.c. supply

Sensing distance (Sn) m	Function	Output	Connection (pre-cabled or connector)	Reference	Weight kg
0...40 depending on whether accessories are used	N/O or N/C using Osiconcept programming	Time delay relay	Screw terminals – ISO 16 cable gland (3)	XUX 0ARCTT16	0.200

Accessories

Description	Connection (pre-cabled or connector)	Reference	Weight kg
Thru-beam accessory (transmitter)	Screw terminals – ISO 16 cable gland (3)	XUX 0ARCTT16T	0.200

Reflector 50 x 50 mm		XUZ C50	0.020
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Fixing accessories (2)

Description	Reference	Weight kg
3D fixing kit for use on M12 rod for XUX or XUZ C50	XUZ X2003	0.220
3D fixing kit for use on M12 rod and with protective cover for XUX	XUZ X2004	0.420
M12 rod	XUZ 2001	0.050
Support for M12 rod	XUZ 2003	0.150
Mounting bracket	XUZ X2000	0.120
Adaptor for ISO 16 - 1/2" NPT	XUZ X2001	0.050
Adaptor for ISO 16 - ISO 20	XUZ X2002	0.050

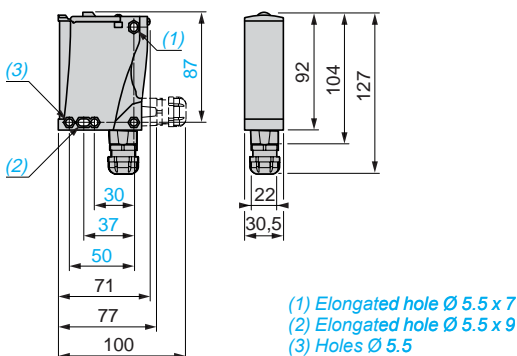
(1) For further information on Osiconcept, see page 37011/2.

(2) For further information, see page 37012/2.

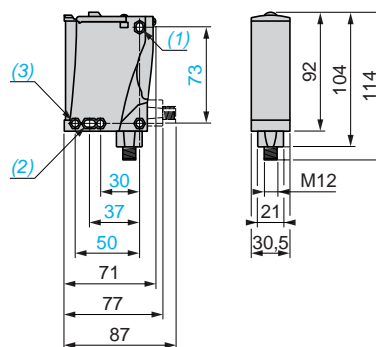
(3) For Ø 7 to 10 mm cable.

Dimensions

XUX ●●●●T16



XUX ●●●●M12



Indexation of the elbowed connector (rear view)

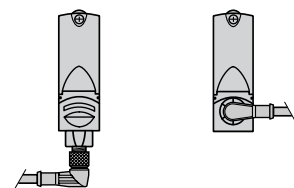


Photo-electric sensors


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Compact design

Five-wire, a.c. or d.c. supply, 1 NC/NO relay output

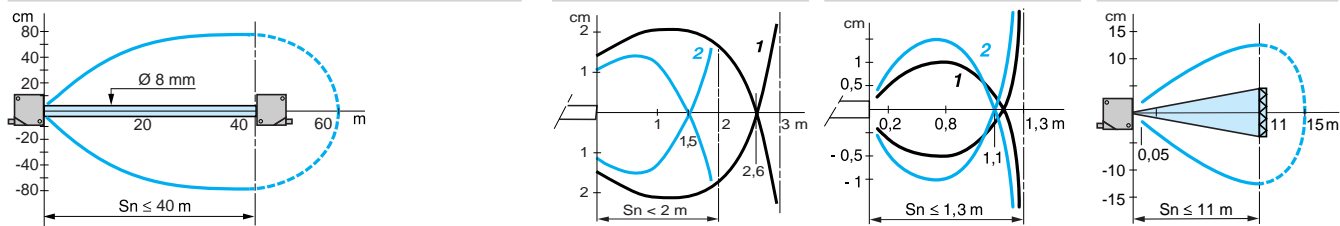
Three-wire, d.c. supply, solid-state output

Characteristics		XUX ●●●●●M12	XUX ●●●●●T16
Sensor type			
Product certifications		UL, CSA, CE	
Connection		M12 connector	Screw terminals, ISO 16 cable entry gland
Sensing distance		m 1.3 / 1.3 without accessory (diffuse system with background suppression)	
nominal S_n / maximum		m 2 / 3 without accessory (diffuse system)	
(excess gain = 2) (excess gain = 1)		m 11 / 15 with reflector (polarised reflex)	
		m 40 / 60 with thru-beam accessory (thru-beam)	
Type of transmission		Infrared, except for polarised reflex (red)	
Degree of protection		Conforming to IEC 60529 IP 65, IP 67, double insulation	
Storage temperature range		°C -40...+70	
Operating temperature range		°C -25...+55	
Materials		Case PBT	
Lens		PMMA	
Vibration resistance		Conforming to IEC 60068-2-6 7 gn, amplitude ± 1.5 mm (f = 10 to 55 Hz)	
Shock resistance		Conforming to IEC 60067-2-27 30 gn, duration 11 ms	
Indicator lights		Output state Yellow LED (transmission present for XUX 0●●●●●T)	
Supply on		Green LED	
Instability		Red LED except for XUX 0●●●●●T)	
Rated supply voltage		PNP/NPN V 12...24 $\overline{\text{---}}$ with protection against reverse polarity	
Relay output		V - 24...240 \sim or $\overline{\text{---}}$	
Voltage limits (including ripple)		PNP/NPN V 10...36 $\overline{\text{---}}$	
Relay output		V - 20...264 \sim or $\overline{\text{---}}$	
Current consumption, no-load		PNP/NPN mA ≤ 35 (20 for XUX 0●●●●●T)	
Power consumption		Relay output W - 2 \sim or $\overline{\text{---}}$	
Alarm output		mA ≤ 100 mA with overload and short-circuit protection	
Switching capacity		PNP/NPN mA ≤ 100 mA with overload and short-circuit protection	
Relay output		A - 500,000 operating cycles 3 A: $\cos \varphi = 1/0.5$ A: $\cos \varphi = 0.4$	
Voltage drop, closed state		V ≤ 1.5	
Maximum switching frequency		PNP/NPN Hz 240	
Relay output		Hz - 20	
Time delays		Relay output s - 0.02...15 on-delay, off-delay or monostable	
Delays		First-up ms < 200	
Response		ms < 2 (PNP/NPN); < 25 (relay output)	
Recovery		ms < 2 (PNP/NPN); < 25 (relay output)	

Connections		Relay output \sim	PNP / NPN $\overline{\text{---}}$	Transmitter $\overline{\text{---}}$	Transmitter \sim
M12 connector	Relay output \sim	Terminals	M12 Terminals	M12 Terminals	Terminals
 <p>See connection on page 30210/2.</p>	Terminals	1 \ominus \sim	1 \bullet 1 \ominus +	1 \bullet 1 \ominus +	1 \ominus \sim
	2 \ominus \sim	3 \bullet 2 \ominus -	3 \bullet 2 \ominus -	2 \bullet 3 \ominus Beam broken input (1)	2 \ominus \sim
	3 \ominus N/O	4 \bullet 3 \ominus Output	4 \bullet 3 \ominus Output	(1) Input not connected: beam made.	
	4 \ominus Relay common	2 \bullet 4 \ominus Alarm	2 \bullet 4 \ominus Alarm	Input connected to $\overline{\text{---}}$: beam broken	
	5 \ominus N/C				

Maximum permissible conductor section: 1 x 1.5 mm² or 1 x 0.75 mm² with adaptor

Detection curves



Object: 10 x 10 cm, 1: white 90 %, 2: grey 18 %

With reflector XUX C50

