Product data sheet

Specifications

Green Premium™

Photoelectric sensors XU, XUX, multi, Sn 0...40 m, 24...240VAC/DC, terminals

XUX0ARCTT16

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose multimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUX
Sensor design	Compact 92 x 71
Detection system	Multimode
Material	Plastic
Type of output signal	Discrete
Supply circuit type	AC/DC
Wiring technique	5-wire
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Screw-clamp terminals, 1 x 1.5 mm² or 1 x 0.75 mm² with adaptor
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	11 m polarised reflex need reflector XUZC50 40 m thru beam need a transmitter XUX0ARCTT16T 2 m diffuse 1.3 m diffuse with background suppression

Complementary

Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	15 m polarised reflex 3 m diffuse 60 m thru beam 1.3 m diffuse with background suppression
Output type	Relay
Add on output	With alarm output, <= 100 mA with overload and short-circuit protection
Cable entry	1 entry for M16 x 1.5 cable gland, cable outer diameter: 7…10 mm
Status LED	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state

[Us] rated supply voltage	24...240 V AC/DC
Switching capacity in mA	0.5 A (cos φ = 0.4 for 0.5 million cycles at 1 operating cycle per second at 250 V) 3 A (cos φ = 1 for 0.5 million cycles at 1 operating cycle per second at 250 V)
Switching frequency	<= 20 Hz
Maximum voltage drop	<1.5 V (closed state)
Maximum power consumption in W	2 W AC/DC
Time delay range	0.02...15 s monostable, on-delay or off-delay (programmable) delay
Maximum delay first up	200 ms
Maximum delay response	25 ms
Maximum delay recovery	25 ms
Setting-up	Self-teaching
Electrical durability	500000 cycles, cos f = 1, operating rate <60 cyc/mn at 250 V 500000 cycles, cos f = 0.4, operating rate <60 cyc/mn at 250 V
Depth	77 mm
Height	92 mm
Width	31 mm
Product weight	0.2 kg

Environment

Product certifications	UL CE CSA
Ambient air temperature for operation	-25…55 °C
Ambient air temperature for storage	-40…70 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 10…55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP65 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.000 cm
Package 1 Width	9.500 cm
Package 1 Length	4.000 cm
Package 1 Weight	209.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.119 kg
Unit Type of Package 3	P06
Number of Units in Package 3	352

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Package 3 Height	45.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	90.850 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months

Dimensions

(1)	Elongated hole Ø 5.5 x 7
(2)	Elongated hole Ø 5.5 x 9
(3)	Ø 5.5 hole

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XUX0ARCTT16
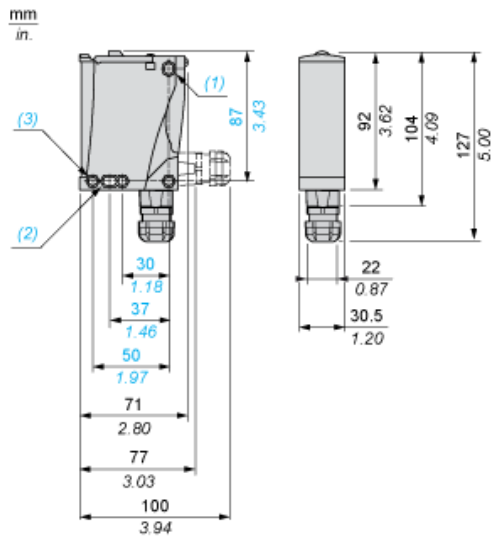
Wiring Schemes

Relay Output AC/DC

Terminals		
1		AC/DC
2		AC/DC
3		NO
4		Relay common
5		NC

Product data sheet
Performance Curves

XUX0ARCTT16

Detection Curves

With Thru-beam Accessory (Thru-beam)
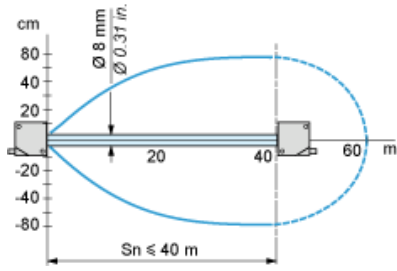
Without Accessory (Diffuse)
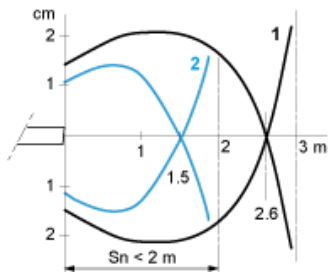
1 : White 90%
2 : Grey 18%
Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)
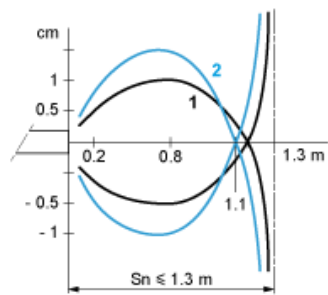
1 : White 90%
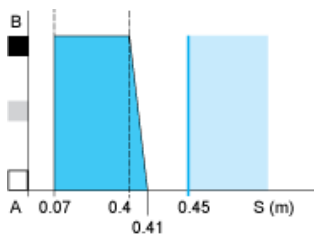**2 :** Grey 18%
Object 10 x 10 cm
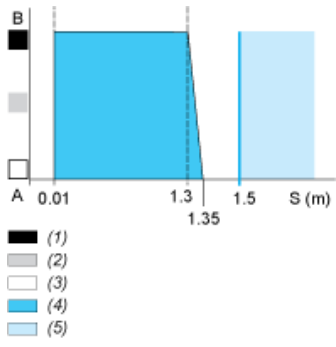
With reflector (Polarised reflex)
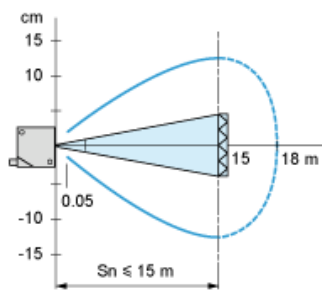
With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression)
Teach Mode at Minimum

Teach Mode at Maximum

A-B :   Object reflection coefficient
(1)   Black 6%
(2)   Grey 18%
(3)   White 90%
(4)   Sensing range
(5)   Non sensing zone (matt surfaces)

Recommended replacement(s)