

Product Life Status : **END OF STANDARD SERVICE**

TODAY
FEB 22, 2021

End of Commercialization
OCT 30, 2020

End of Standard Service
OCT 30, 2020



Main

Range of product	OsiSense XU
Series name	Application assembly
Electronic sensor type	Photo-electric sensor
Sensor name	XUA
Sensor design	Cylindrical M8
Detection system	Diffuse
Material	Metal
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NC
Electrical connection	1 male connector M8, 3 pins
Product specific application	-
Emission	Infrared diffuse
[Sn] nominal sensing distance	0.05 m diffuse

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Complementary

Enclosure material	Nickel plated brass
Lens material	PMMA
Maximum sensing distance	0.06 m
Output type	Solid state
Add on output	Without
Wire insulation material	PvR
Status LED	1 LED (yellow) for output state
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...36 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 500 Hz
Maximum voltage drop	<1.5 V (closed state)
Current consumption	35 mA no-load

Maximum delay first up	15 ms
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Setting-up	Without sensitivity adjustment
Diameter	18 mm
Length	46 mm
Net weight	0.015 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	IP67 double insulation conforming to IEC 60529 IP65 double insulation conforming to IEC 60529

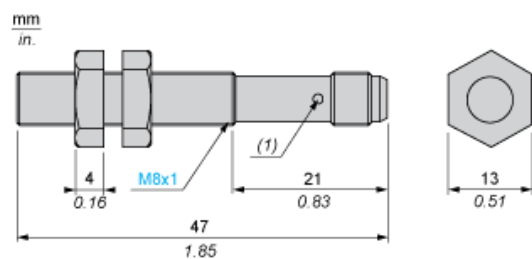
Packing Units

Package 1 Weight	0.029 kg
Package 1 Height	0.350 dm
Package 1 width	0.450 dm
Package 1 Length	1.100 dm

Contractual warranty

Warranty	18 months
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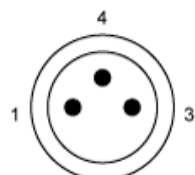
Dimensions



(1) LED, 4 viewing ports at 90°
Note Fixing nut tightening torque : <2N.m

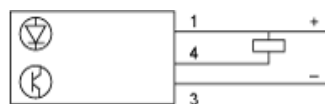
Wiring Schemes

M8 Connector

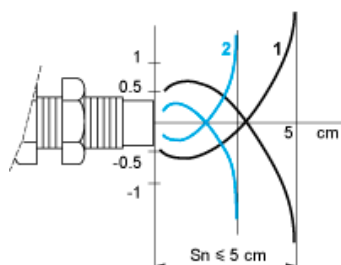


- 1 : (+)
- 3 : (-)
- 4 : OUT or test

NPN

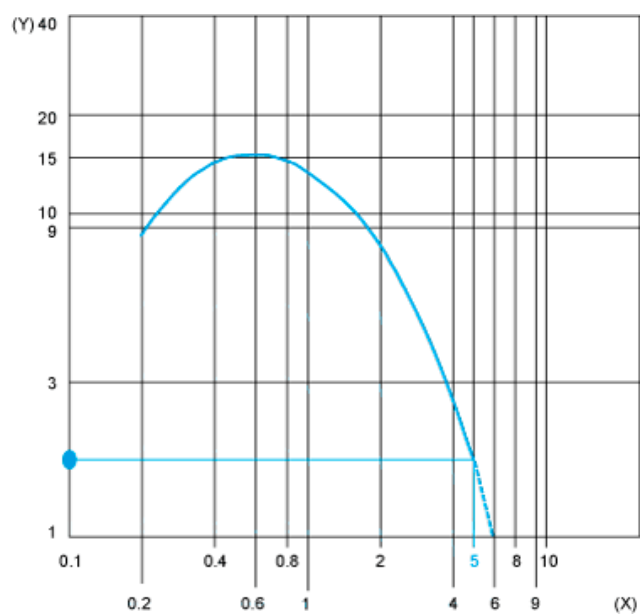


Detection Curves

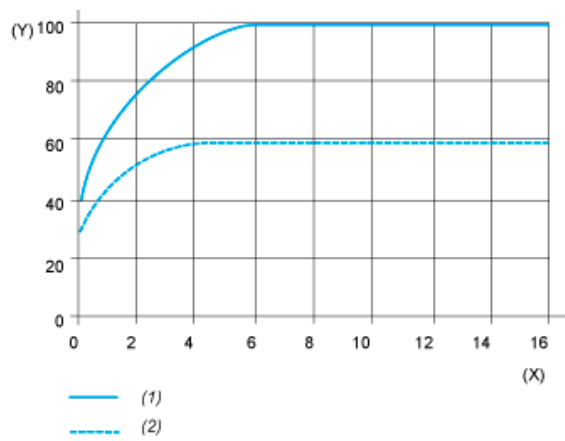


1 : White 90%
2 : Grey 18%
Object 5 x 5 cm

Excess Gain Curves (Ambient temperature: $\pm 25^{\circ}\text{C}$)



(Y) Gain
(X) Distance (m)
Object 5 x 5 cm, White 90%



(1) White

(2) Grey

(Y) Variation of sensing distance S_n

(X) Side of square object (cm)

Detection differential (H) when object approaches from the front: $H \leq 25\%$ of S_n