Product datasheet

Specifications



photo-electric sensor - XUA - diffuse - Sn 0.05m - 12..24VDC - cable 2m

XUAH0515

Main

Range of product	Telemecanique Photoelectric sensors 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	PNP
Discrete output function	1 NO
Electrical connection	Cable
Cable length	2 m
Product specific application	-
Emission	Infrared diffuse
[Sn] nominal sensing distance	0.05 m diffuse

Complementary

Enclosure material	Nickel plated brass
Lens material	PMMA
Maximum sensing distance	0.06 m
Output type	Solid state
Add on output	Without
Cable composition	3 x 0.14 mm²
Wire insulation material	PvR
Cable outer diameter	3.5 mm
Status LED	1 LED (yellow) for output state

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10…30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 1000 Hz
Maximum voltage drop	<1 V (closed state)
Current consumption	<= 25 mA no-load
Maximum delay first up	20 ms
Maximum delay response	0.5 ms
Maximum delay recovery	0.5 ms
Setting-up	Without sensitivity adjustment
Diameter	8 mm
Length	47 mm
Net weight	0.015 kg

Environment

Product certifications	CE cULus
Ambient air temperature for operation	-25…55 °C
Ambient air temperature for storage	-30…70 °C
Vibration resistance	7 gn, amplitude = +/- 1 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 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	50.0 g
Package 1 Height	3.5 cm
Package 1 width	9 cm
Package 1 Length	11 cm
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Weight	1.39 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

Offer Sustainability

REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

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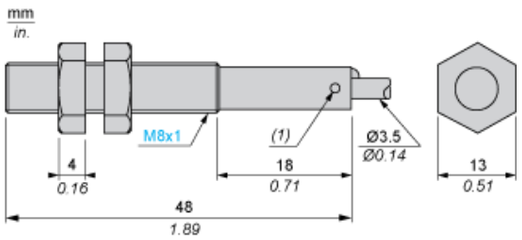
Dimensions Drawings

Dimensions



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

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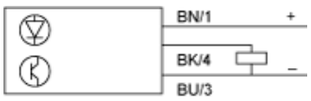
Connections and Schema

Wiring Schemes

PNP



BN : Brown
BU : Blue
BK : Black

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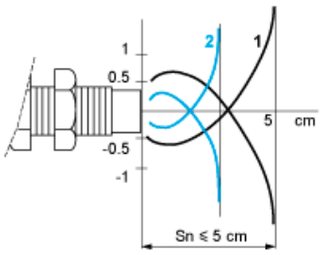
Performance Curves

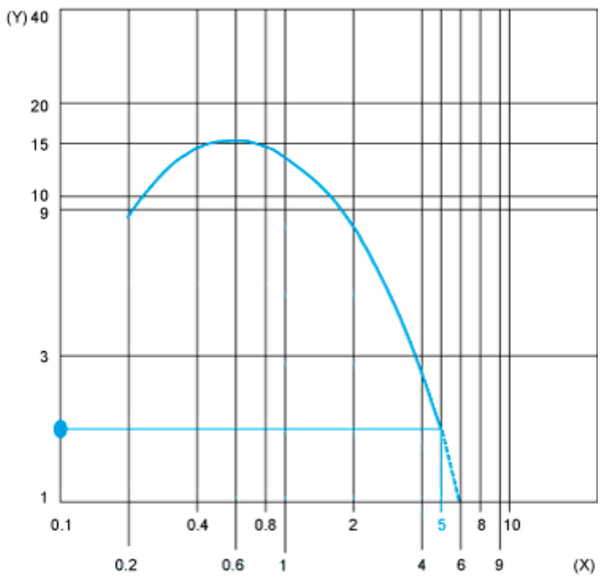
Detection Curves



1 : White 90%
2 : Grey 18%

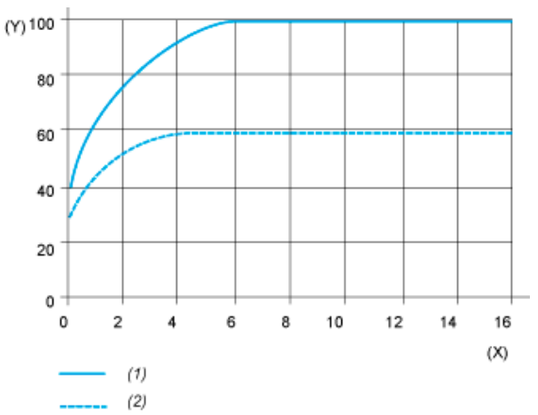
Object 5 x 5 cm

Excess Gain Curves (Ambient temperature: ± 25 °C)



(Y) Gain
(X) Distance (m)

Object 5 x 5 cm, White 90%



(1) White
(2) Grey
(Y) Variation of sensing distance Sn
(X) Side of square object (cm)

Detection differential (H) when object approaches from the front: H ≤ 25% of Sn