

Photoelectric sensors XU, XUA, diffuse, Sn 0.05 m, 12...24 VDC, M8

XUAH0515S

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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	1 male connector M8, 3 pins
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
[Us] rated supply voltage	1224 V DC with reverse polarity protection

Supply voltage limits	1030 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	48 mm
Product weight	0.5 kg
Environment	
Product certifications	CE cULus
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Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-3070 °C
Vibration resistance	7 gn, amplitude = +/- 1 mm (f = 1055 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 conforming to IEC 60529 IP65 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.4 cm
Package 1 Width	6.8 cm
Package 1 Length	9.6 cm
Package 1 Weight	28.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	872.0 g

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
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

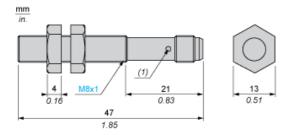
18 months

Product data sheet

XUAH0515S

Dimensions Drawings

Dimensions



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

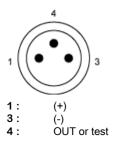
Product data sheet

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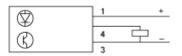
Connections and Schema

Wiring Schemes

M8 Connector



PNP

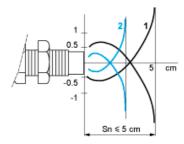


Product data sheet

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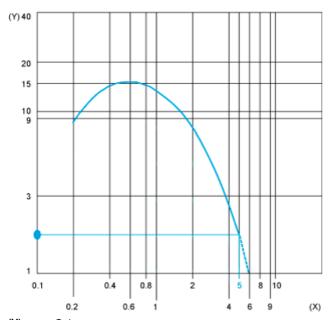
Performance Curves

Detection Curves

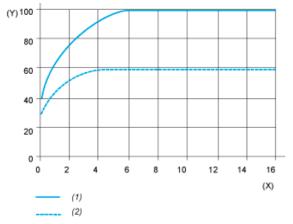


1: White 90% 2: Grey 18% Object 5 x 5 cm **Performance Curves**

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



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



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

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

Recommended replacement(s)