XUAH0525S

photo-electric sensor - XUA - diffuse - Sn 0.05m - 12..24VDC - M8



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	PNP
Discrete output function	1 NC
Electrical connection	1 male connector M8, 3 pins
Product specific application	-
Emission	Infrared diffuse
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[Sn] nominal sensing distance	0.05 m diffuse

Complementary

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	<= 2000 Hz
Maximum voltage drop	<1 V (closed state)
Current consumption	<= 10 mA no-load
Maximum delay first up	20 ms
Maximum delay response	0.25 ms
Maximum delay recovery	0.25 ms
Setting-up	Without sensitivity adjustment
Diameter	8 mm
Length	48 mm
Net weight	0.05 kg

Environment

Product certifications	CE CULus	
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 Weight	30 g	
Package 1 Height	4 cm	
Package 1 width	4.5 cm	
Package 1 Length	11 cm	

Offer Sustainability

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

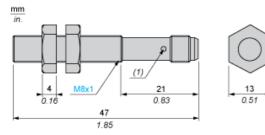
Contractual warranty

Warranty	18 months
vvarranty	16 months

Product data sheet Dimensions Drawings

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Dimensions



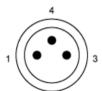
(1) LED, 4 viewing ports at 90° Note Fixing nut tightening torque : <2N.m

Product data sheet **Connections and Schema**

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Wiring Schemes

M8 Connector



(+) (-) OUT or test

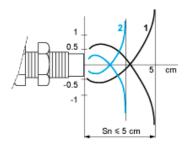
PNP



Product data sheet Performance Curves

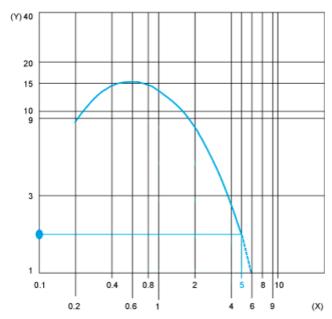
XUAH0525S

Detection Curves



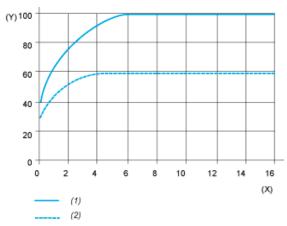
1: White 90% 2: Grey 18% Object 5 x 5 cm

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



(Y) Gain (X) Distance (m)

Object 5 x 5 cm, White 90%



- (1) (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