# Product data sheet Characteristics

### **XUAH0515S**

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



#### 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	1 male connector M8, 3 pins
Product specific application	-
Emission	Infrared diffuse
[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	<= 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
Net weight	0.5 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

1 30 g 3.7 cm
3.7 cm
4.7 cm
11 cm
S01
24
872 g
15 cm
15 cm
40 cm

#### Offer Sustainability

REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EEU 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

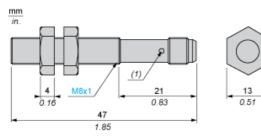
#### Contractual warranty

Warranty	18 months
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# Product data sheet Dimensions Drawings

## **XUAH0515S**

#### **Dimensions**

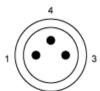


(1) LED, 4 viewing ports at 90° Note Fixing nut tightening torque : <2N.m

## **XUAH0515S**

#### Wiring Schemes

#### M8 Connector



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

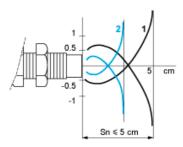
#### **PNP**



# Product data sheet Performance Curves

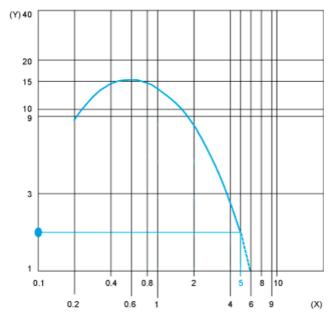
## **XUAH0515S**

#### **Detection Curves**



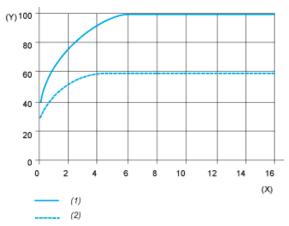
1: White 90% 2: Grey 18% Object 5 x 5 cm

#### 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