## **XUAJ0515S**

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	NPN
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	Polyamide
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[RETURN]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 Height	3.6 cm	
Package 1 Width	4.5 cm	
Package 1 Length	11.0 cm	
Package 1 Weight	30.0 g	
Unit Type of Package 2	S01	
Number of Units in Package 2	28	
Package 2 Height	15.0 cm	
Package 2 Width	15.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	1.065 kg	

## Offer Sustainability

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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

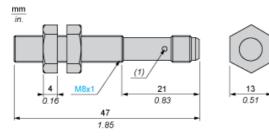
### Contractual warranty

Warranty	18 months

# Product data sheet Dimensions Drawings

# **XUAJ0515S**

### **Dimensions**



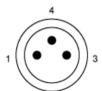
(1) LED, 4 viewing ports at 90° Note Fixing nut tightening torque : <2N.m

## Product data sheet **Connections and Schema**

# **XUAJ0515S**

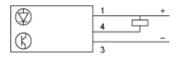
## Wiring Schemes

## M8 Connector



(+) (-) OUT or test

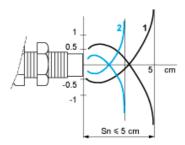
## NPN



# Product data sheet Performance Curves

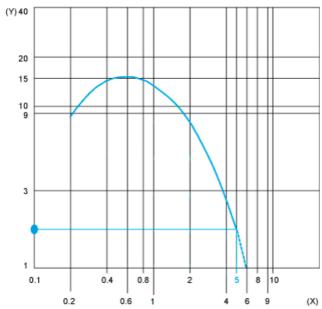
## **XUAJ0515S**

### **Detection Curves**



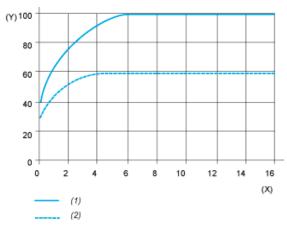
1: White 90% 2: Grey 18% Object 5 x 5 cm

## 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