Specifications



# Photoelectric sensors XU, XUM, multi, Sn 0...10 m, 12...24 VDC, M8

XUM0ANSAM8

## Main

Range Of Product	Telemecanique Photoelectric sensors XU
Series Name	General purpose multimode
Electronic Sensor Type	Photo-electric sensor
Sensor Name	XUM
Sensor Design	Miniature
Detection System	Multimode
Material	Plastic
Type Of Output Signal	Discrete
Supply Circuit Type	DC
Wiring Technique	3-wire
Discrete Output Type	NPN
Discrete Output Function	1 NO or 1 NC programmable
Electrical Connection	1 male connector M8, 4 pins
Product Specific Application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] Nominal Sensing Distance	3 m polarised reflex need reflector XUZC50 10 m thru beam need a transmitter XUM0AKSAM8T 0.1 m diffuse with background suppression 0.4 m diffuse

# Complementary

Enclosure Material	РВТ
Lens Material	РММА
Maximum Sensing Distance	14 m thru beam 4 m polarised reflex 0.1 m diffuse with background suppression 0.55 m diffuse
Output Type	Solid state
Add On Output	With alarm output, 50 mA
Wire Insulation Material	PVC
Status Led	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state
[Us] Rated Supply Voltage	1224 V DC with reverse polarity protection

Switching Capacity In Ma	<= 100 mA (overload and short-circuit protection)
Switching Frequency	<= 250 Hz 240 Hz
Maximum Voltage Drop	<1.5 V (closed state)
Current Consumption	35 mA no-load
Maximum Delay First Up	100 ms
Maximum Delay Response	2 ms
Maximum Delay Recovery	2 ms
Setting-Up	Self-teaching
Depth	20 mm
Height	45 mm
Width	12 mm
Net Weight	0.035 kg

## Environment

Product Certifications	UL CE CSA
Ambient Air Temperature For Operation	-2555 °C
Ambient Air Temperature For Storage	-4070 °C
Vibration Resistance	7 gn, amplitude = +/- 1.5 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	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	9.6 cm
Package 1 Length	6.7 cm
Package 1 Weight	39.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	44
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.171 kg

# **Contractual warranty**

Warranty

18 months

## Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



RoHS/REACh

## Well-being performance

Mercury Free

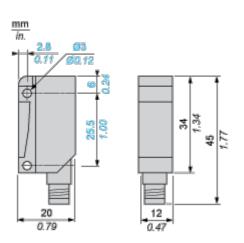
Rohs Exemption Information Yes

## **Certifications & Standards**

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

## **Dimensions Drawings**

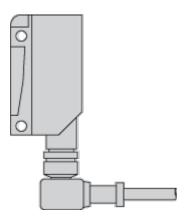
## Dimensions



Mounting and Clearance

Mounting and Clearance

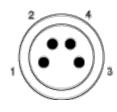
## Possible Orientation of Elbowed Connector



Connections and Schema

## Wiring Schemes

## M8 Connector

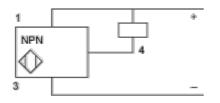


1: (+)

3: (-)

4: OUT/Output

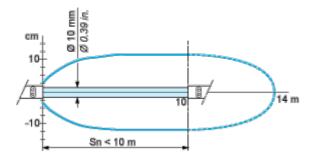
## **Receiver, NPN Output**



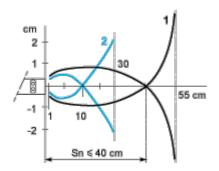
Performance Curves

**Detection Curves** 

## With Thru-beam Accessory (Thru-beam)



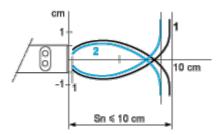
## Without Accessory (Diffuse)



- 1: White 90%
- 2: Grey 18%

Object 10 x 10 cm

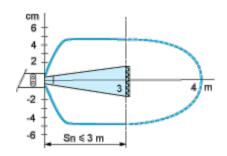
#### Without Accessory (Diffuse with background suppression)



- 1: White 90%
- 2: Grey 18%

Object 10 x 10 cm

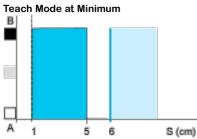
## With reflector (Polarised reflex)

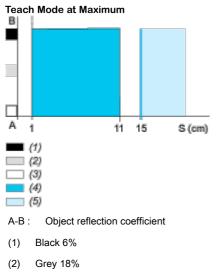


With reflector XUZC50

## Variation of Usable Sensing Distance Su (Without accessory, with adjustable background

suppression)





- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)