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 PremiumTM 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-CO₂ 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

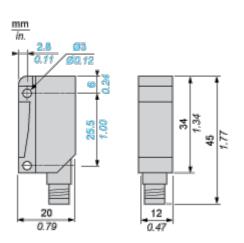
Rohs Exemption Information Yes

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

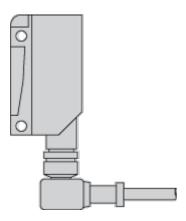
Dimensions



Mounting and Clearance

Mounting and Clearance

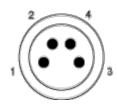
Possible Orientation of Elbowed Connector



Connections and Schema

Wiring Schemes

M8 Connector

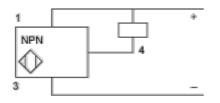


1: (+)

3: (-)

4: OUT/Output

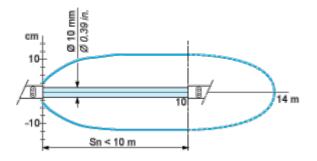
Receiver, NPN Output



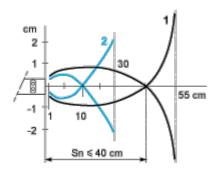
Performance Curves

Detection Curves

With Thru-beam Accessory (Thru-beam)



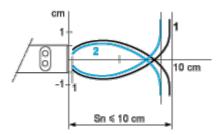
Without Accessory (Diffuse)



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

Object 10 x 10 cm

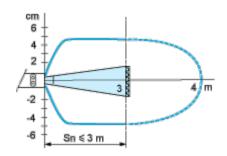
Without Accessory (Diffuse with background suppression)



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

Object 10 x 10 cm

With reflector (Polarised reflex)

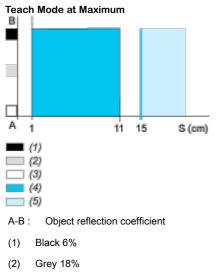


With reflector XUZC50

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

suppression)





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