

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

XUM0APSAM8

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	PNP
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	PBT
Lens Material	PMMA
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	CSA
	UL
	CE
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

PCE
1
4.2 cm
6.7 cm
9.7 cm
35.0 g
S02
22
15 cm
30 cm
40 cm
3.195 kg
P06
352
75 cm
40 cm
80 cm

Package 3 Weight

28.88 kg

Contractual warranty

Warranty

Apr 25, 2024

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

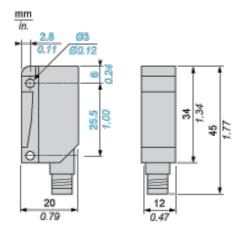
Certifications & Standards

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 Diisodecyl 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

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Dimensions Drawings

Dimensions

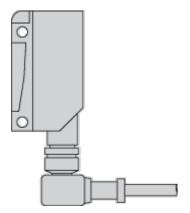


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Mounting and Clearance

Mounting and Clearance

Possible Orientation of Elbowed Connector

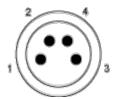


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Connections and Schema

Wiring Schemes

M8 Connector

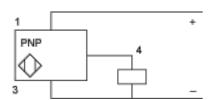


1: (+)

3: (-)

4: OUT/Output

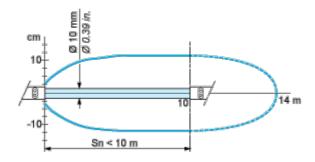
Receiver, PNP Output



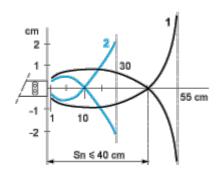
Performance Curves

Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)

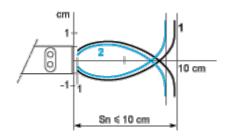


1: White 90%

2: Grey 18%

Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



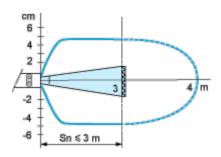
1: White 90%

2: Grey 18%

Object 10 x 10 cm

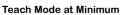
With reflector (Polarised reflex)

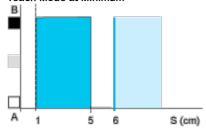
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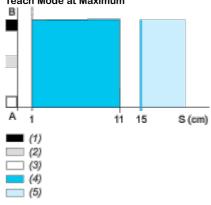
With reflector XUZC50

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





Teach Mode at Maximum



A-B: Object reflection coefficient

- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)