

Product data sheet Characteristics

XUM0ANSAM8

photo-electric sensor - XUM - multi - Sn 0..10m - 12..24VDC - M8



Important message: We have updated the process for ordering Telemecanique Sensors products. For more information, please contact your Telemecanique Sensors representative in the UK&I at: UK.salesorders@tesensors.comYou can find all product information on the Telemecanique Sensors website:

www.tesensors.com/uk/en Local distributor code: 388789865 EAN Code: 3389110164893



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	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)	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not inhered as a substitute for and is not to be used for determining validability or integer products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof Neither Schweider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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[RETURN]CE[RETURN]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

PCE
1
4.2 cm
9.6 cm
6.7 cm
39.0 g
S02
44
15.0 cm
30.0 cm
40.0 cm
2.171 kg

Offer Sustainability

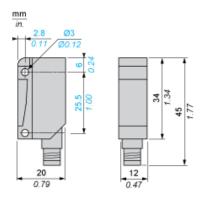
Green Premium product
REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope)
Yes
₫Yes

Contractual warranty

Product data sheet Dimensions Drawings

XUM0ANSAM8

Dimensions

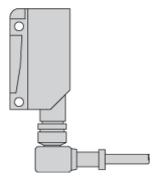


Product data sheet Mounting and Clearance

XUM0ANSAM8

Mounting and Clearance

Possible Orientation of Elbowed Connector



Product data sheet Connections and Schema

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Wiring Schemes

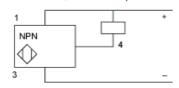
M8 Connector



1: (+)

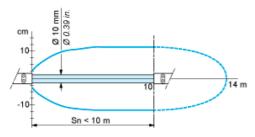
3 : (-) 4 : OUT/Output

Receiver, NPN Output

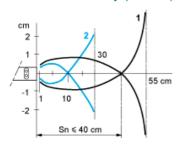


Detection Curves

With Thru-beam Accessory (Thru-beam)



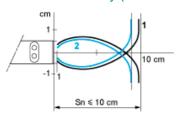
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

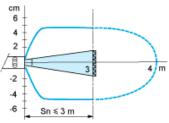
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

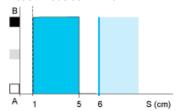
With reflector (Polarised reflex)



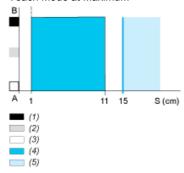
With reflector XUZC50

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

Teach Mode at Minimum



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)