Product data sheet Characteristics

XUM0APSAM8

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





Main

Main Range of product Series name General purpose mult 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 Discrete output type PNP Discrete output function Electrical connection Infrared diffuse Infrared diffuse Infrared diffuse Infrared thru beam Red polarised reflex n 10 m thru beam need 0.1 m diffuse With bac 0.4 m diffuse Complementary	
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Enclosure material PBT	
Lens material PMMA	
Maximum sensing distance 14 m thru beam	
4 m polarised reflex 0.1 m diffuse with bac	

Complementary

Complementary		<u> </u>
Enclosure material	PBT	
Lens material	PMMA	
Maximum sensing distance	14 m thru beam 4 m polarised reflex 0.1 m diffuse with background suppression	aimer This do

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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	
P degree of protection IP65 conforming to IEC 60529 IP67 conforming to IEC 60529		

Packing Units

Package 1 Weight	0.035 kg	
Package 1 Height	0.420 dm	
Package 1 width	0.970 dm	
Package 1 Length	0.670 dm	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
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	

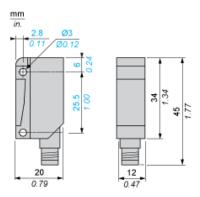
Contractual warranty

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Warranty	18 months	

Product data sheet Dimensions Drawings

XUM0APSAM8

Dimensions

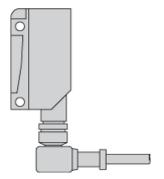


Product data sheet Mounting and Clearance

XUM0APSAM8

Mounting and Clearance

Possible Orientation of Elbowed Connector



Product data sheet Connections and Schema

XUM0APSAM8

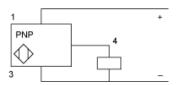
Wiring Schemes

M8 Connector



(-) OUT/Output

Receiver, PNP Output

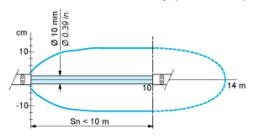


Product data sheet Performance Curves

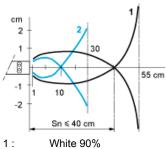
XUM0APSAM8

Detection Curves

With Thru-beam Accessory (Thru-beam)



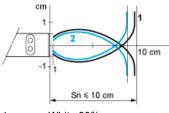
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

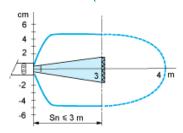
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

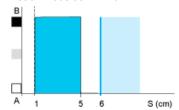
With reflector (Polarised reflex)



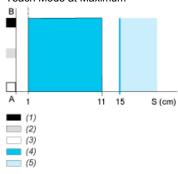
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum



Object reflection coefficient Black 6% A-B :

(1)

(2) (3) (4) (5) **Grey 18%**

White 90%

Sensing range

Non sensing zone (matt surfaces)