

## Product data sheet Characteristics

## XUM0APSAM8

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





#### 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	LED (green) for supply     LED (red) for instability     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	

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Depth	20 mm
Height	45 mm
Width	12 mm
Net weight	0.035 kg

## Environment

CSA[RETURN]UL[RETURN]CE	
-2555 °C	
r temperature for storage -4070 °C	
7 gn, amplitude = +/- 1.5 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
30 gn (duration = 11 ms) conforming to IEC 60068-2-27	
IP65 conforming to IEC 60529 IP67 conforming to IEC 60529	

## Packing Units

r doming office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	6.7 cm
Package 1 Length	9.7 cm
Package 1 Weight	35.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.195 kg
Unit Type of Package 3	P06
Number of Units in Package 3	352
Package 3 Height	75 cm
Package 3 Width	40 cm
Package 3 Length	80 cm
Package 3 Weight	28.88 kg

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	gulation   REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
RoHS exemption information	₫Yes	

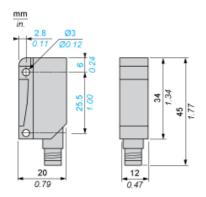
#### Contractual warranty

Warranty	18 mont	

# Product data sheet Dimensions Drawings

# XUM0APSAM8

## **Dimensions**

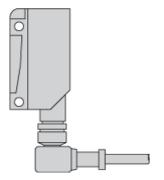


# Product data sheet Mounting and Clearance

## XUM0APSAM8

Mounting and Clearance

Possible Orientation of Elbowed Connector



## Product data sheet Connections and Schema

## XUM0APSAM8

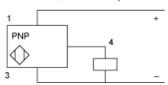
## Wiring Schemes

## M8 Connector



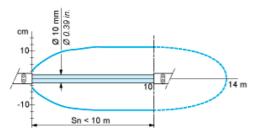
(-) OUT/Output

## Receiver, PNP Output

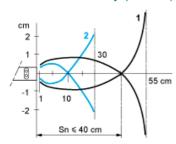


#### **Detection Curves**

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



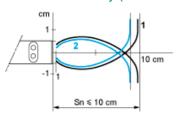
## Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

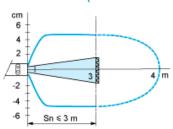
## Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

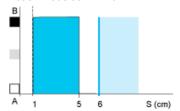
## With reflector (Polarised reflex)



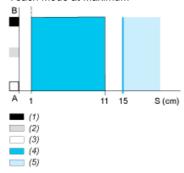
With reflector XUZC50

## 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)