

Product data sheet Characteristics

XUM0ANSAL2

photo-electric sensor - XUM - multi - Sn 0..10m - 12..24VDC - cable 2m





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	Cable	
Cable length	2 m	
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 XUM0AKSAL2T 0.1 M diffuse with background suppression 0.4 m diffuse	

Complementary

PBT
PMMA
14 M thru beam 4 M polarised reflex 0.1 M diffuse with background suppression 0.55 m diffuse
Solid state
With alarm output, 50 mA
PvR
LED (green) for supply LED (red) for instability LED (yellow) for output state
1224 V DC with reverse polarity protection
<= 100 mA (overload and short-circuit protection)
<= 250 Hz
<1.5 V (closed state)
35 mA no-load
100 ms
2 ms
2 ms
Self-teaching

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.

Depth	20 mm
Height	34 mm
Width	12 mm
Net weight	0.05 kg

Environment

Product certifications	CSA[RETURN]CE[RETURN]UL	
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 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529	

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	9.7 cm
Package 1 Length	13.2 cm
Package 1 Weight	92.0 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	2.422 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	57.384 kg

Offer Sustainability

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

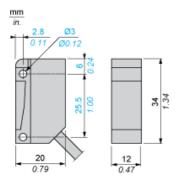
Contractual warranty

Warranty	18 mont	

Product data sheet Dimensions Drawings

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Dimensions

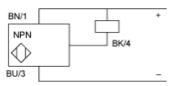


Product data sheet Connections and Schema

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Wiring Schemes

Receiver, NPN Output

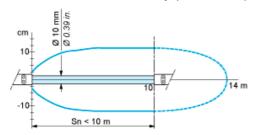


BN: Brown BU: Blue BK: Black

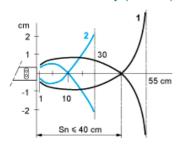
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Detection Curves

With Thru-beam Accessory (Thru-beam)



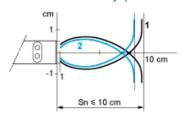
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

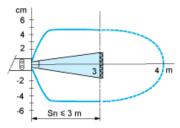
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

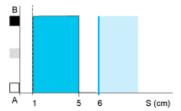
With reflector (Polarised reflex)



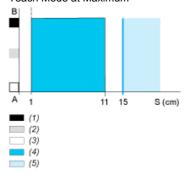
With reflector XUZC50

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)