



## 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	9.84 Ft (3 m) polarised reflex need reflector XUZC50 32.81 Ft (10 m) thru beam need a transmitter XUM0AKSAM8T 0.33 Ft (0.1 m) diffuse with background suppression 1.31 ft (0.4 m) diffuse

## Complementary

Enclosure Material	PBT
Lens material	PMMA
Maximum sensing distance	45.93 Ft (14 m) thru beam 13.12 Ft (4 m) polarised reflex 0.33 Ft (0.1 m) diffuse with background suppression 1.80 ft (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)supply 1 LED red)instability 1 LED yellow)output state
[Us] rated supply voltage	12...24 V DC 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	0.79 in (20 mm)
Height	1.77 in (45 mm)

Width	0.47 in (12 mm)
Net Weight	0.08 lb(US) (0.035 kg)

## Environment

Product Certifications	UL CE CSA
Ambient Air Temperature for Operation	-13...131 °F (-25...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Vibration resistance	7 gn +/- 1.5 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP65 IEC 60529 IP67 IEC 60529

## Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389110164893
Returnability	No
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.65 in (4.2 cm)
Package 1 Width	3.78 in (9.6 cm)
Package 1 Length	2.64 in (6.7 cm)
Package 1 Weight	1.38 oz (39.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	4.79 lb(US) (2.171 kg)

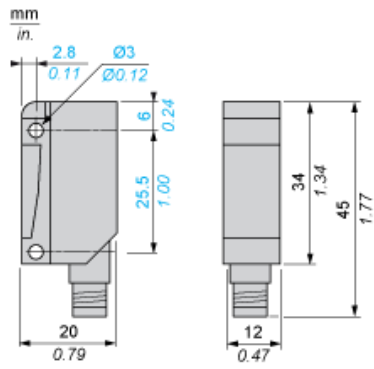
## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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## Dimensions

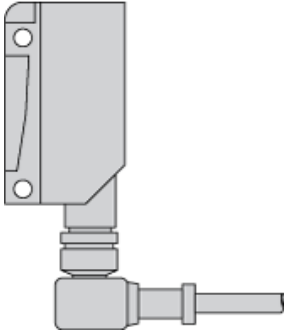


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Mounting and Clearance

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Possible Orientation of Elbowed Connector

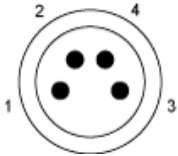


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## Wiring Schemes

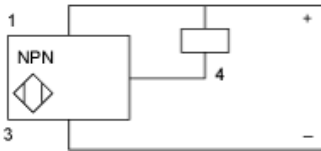
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### M8 Connector



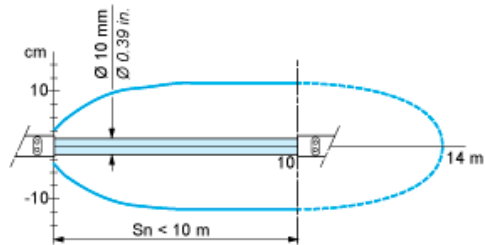
- 1 : (+)
- 3 : (-)
- 4 : OUT/Output

### Receiver, NPN Output

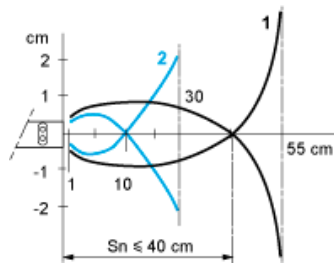


Detection Curves

With Thru-beam Accessory (Thru-beam)

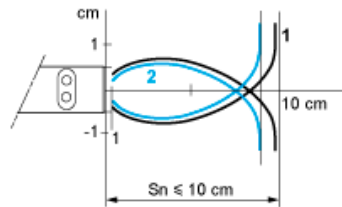


Without Accessory (Diffuse)



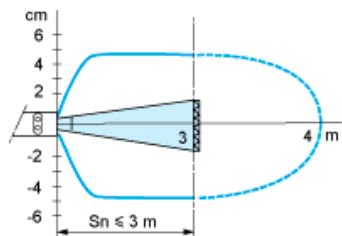
1: White 90%  
2: Grey 18%  
Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



1: White 90%  
2: Grey 18%  
Object 10 x 10 cm

With reflector (Polarised reflex)



With reflector XUZC50