

XUM8ANXBM8

Photoelectric sensors XU, miniature,
background suppression, Smax=0.30 m, NPN,
connector M8



Main

Range of Product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XUM
Sensor design	Miniature
Detection system	Diffuse with background suppression
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	Male connector M8, 4 pins
Emission	Red LED diffuse with background suppression
[Sn] nominal sensing distance	0.66 ft (0.20 m)

Complementary

Enclosure Material	PBT
Lens material	PMMA
Maximum sensing distance	0.98 ft (0.30 m)
Output Type	Solid state
Status LED	Stability 1 LED green) Output state 1 LED orange)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA overload and short-circuit protection
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V closed state)
Current consumption	30 mA no-load
Maximum delay first up	100 ms
Maximum delay response	0.5 ms
Maximum delay recovery	0.5 ms
Setting-up	Sensitivity by potentiometer
Depth	0.79 in (20 mm)
Height	1.73 in (44 mm)
Width	0.39 in (10 mm)
Net Weight	0.02 lb(US) (0.01 kg)

Environment

Product Certifications	cULus[RETURN]CE[RETURN]UKCA
Ambient Air Temperature for Operation	-22...131 °F (-30...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Relative humidity	35...95 %
Immunity to ambient light	40000 Lux sunlight 10000 lux incandescent light

Vibration resistance	9 gn +/- 1.5 mm 10...500 Hz)for every axis IEC 60068-2-6
Shock resistance	100 gn 11 ms) for every axis IEC 60068-2-27
IP degree of protection	IP67 IEC 60529 IP65 IEC 60529

Ordering and shipping details

Category	US10DS222481
Discount Schedule	0DS2
GTIN	3389110974782
Returnability	Yes
Country of origin	JP

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.59 in (1.5 cm)
Package 1 Width	1.77 in (4.5 cm)
Package 1 Length	3.54 in (9.0 cm)
Package 1 Weight	0.46 oz (13.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	120
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	4.50 lb(US) (2.04 kg)

Offer Sustainability

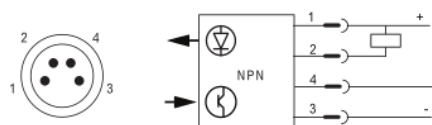
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months
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Connection and schema

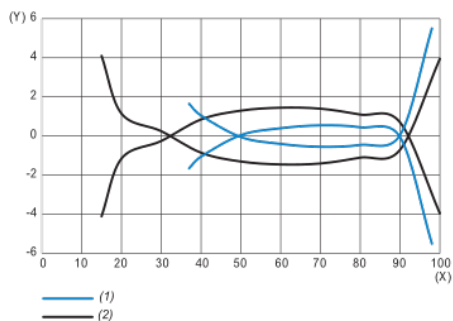
Wiring diagram



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : OUT/Output

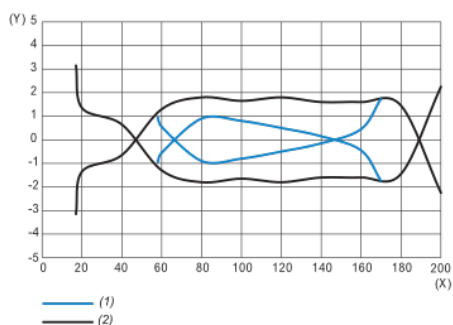
Detection curves

Lateral displacement (preset 100 mm)



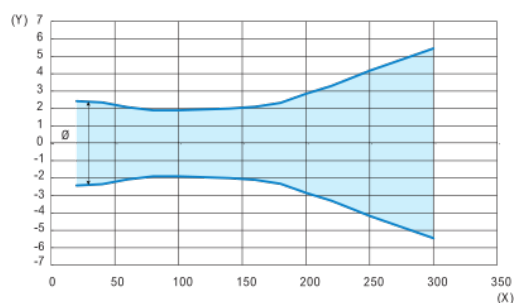
- (1) : Black paper 6 % remission
- (2) : White paper 90 % remission
- (3) : Sensor
- (4) : Object (200 mm square white and black mat paper)
- (X) : Sensing distance (mm)
- (Y) : Lateral displacement (mm)

Lateral displacement (preset 200 mm)



- (1) : Black paper 6 % remission
- (2) : White paper 90 % remission
- (3) : Sensor
- (4) : Object (200 mm square white and black mat paper)
- (X) : Sensing distance (mm)
- (Y) : Lateral displacement (mm)

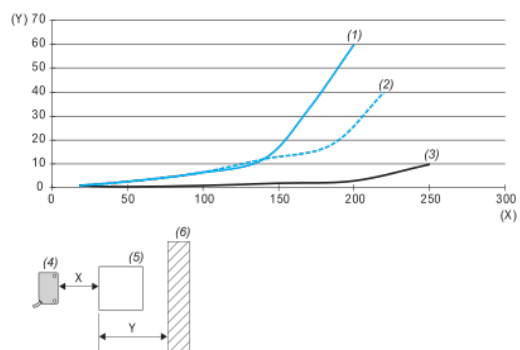
Light beam diameter



(X) : Sensing distance (mm)

(Y) : Light beam diameter (mm)

Minimum distance between the object to detect and white background



(1) : Min. distance black object (6%)/white background (90%) (mm)

(2) : Min. distance grey object (18%)/white background (90%) (mm)

(3) : Min. distance white object (90%)/white background (90%) (mm)

(4) : Sensor

(5) : Object

(6) : Background

(X) : Distance sensor/object (mm)

(Y) : Min. distance object/background (mm)