

XUM2APXBM8

Photoelectric sensors XU, miniature, thru beam, Smax=30 m, system, PNP, 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	Thru beam
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	Male connector M8, 4 pins
Emission	Red LED thru beam
[Sn] nominal sensing distance	65.62 ft (20 m)

Complementary

Enclosure Material	PBT
Lens material	PMMA
Maximum sensing distance	98.43 ft (30 m)
Output Type	Solid state
Status LED	Supply on 1 LED green) Receiver/Output 1 LED orange) Receiver/supply on 1 LED green)
[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
Current consumption	20 mA for transmitter 20 mA for receiver
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	0.04 lb(US) (0.019 kg)
Kit composition	Transmitter + receiver XUM2AKXBM8T + XUM2APXBM8R

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	3389110757453
Returnability	Yes
Country of origin	JP

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.47 in (1.2 cm)
Package 1 Width	3.54 in (9 cm)
Package 1 Length	5.12 in (13 cm)
Package 1 Weight	0.74 oz (21 g)
Unit Type of Package 2	S02
Number of Units in Package 2	120
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	6.64 lb(US) (3.012 kg)

Offer Sustainability

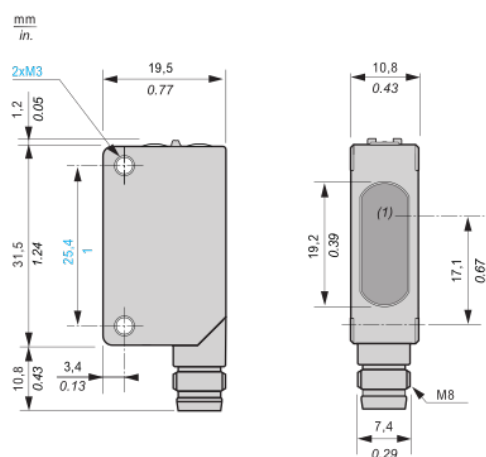
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. 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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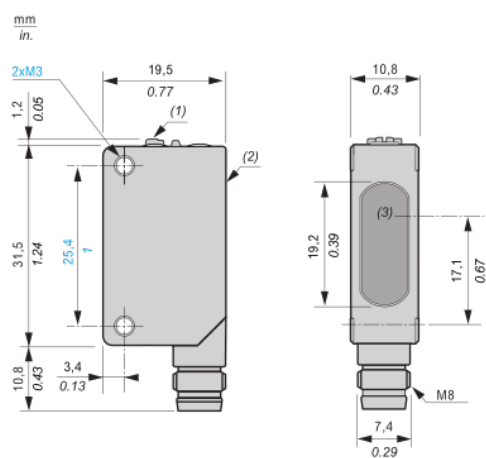
Dimensions

Transmitter



(1) : Transmission

Receiver



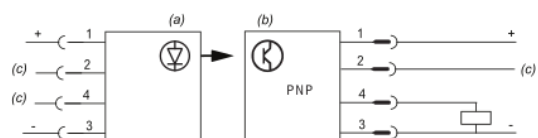
(1) : Setting potentiometer (sensitivity)

(2) : Setting potentiometer (output)

(3) : Reception

Connection and schema

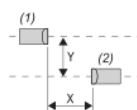
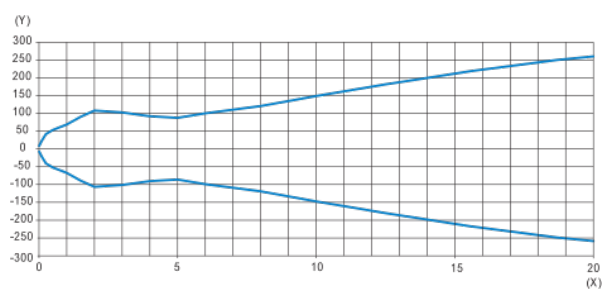
Wiring diagram



- 1: (+)
- 2: Not connected
- 3: (-)
- 4: OUT/Output
- (a): Transmitter
- (b): Receiver
- (c): Not connected

Detection curves

Lateral displacement



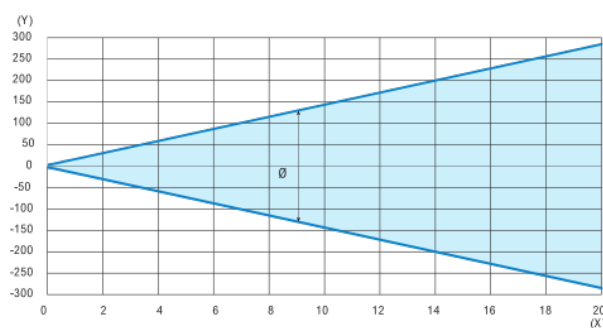
(1): Transmitter

(2): Receiver

(X): Sensing distance (m)

(Y): Lateral displacement (mm)

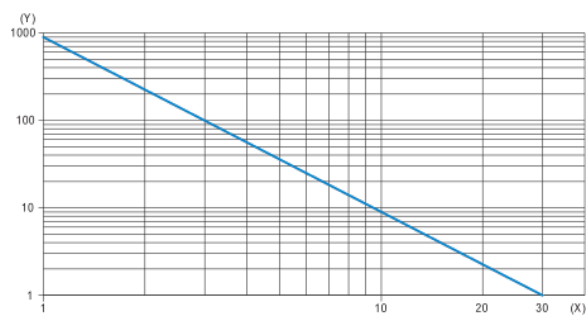
Light beam diameter



(X): Sensing distance (m)

(Y): Light beam diameter (mm)

Excess gain



(X): Sensing distance (m)

(Y): Excess gain