

XUM2APSBM8

PHOTOELECTRIC SENSOR MINIATURE THRU BEAM SN 20M PNP CONNECTOR M8



Main

Range of product	OsiSense 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	Infrared thru beam
[Sn] nominal sensing distance	20 m

Complementary

Enclosure material	PBT
Lens material	PMMA
Output type	Solid state
Status LED	Transmitter/Supply on: 1 LED (green) Receiver/Output: 1 LED (yellow) Receiver/stability: 1 LED (green)
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA with short-circuit protection
Switching frequency	<= 500 Hz
Maximum voltage drop	<2 V
Current consumption	30 mA no-load
Maximum delay first up	300 ms
Maximum delay response	1 ms
Setting-up	Sensitivity by potentiometer
Depth	19.5 mm
Height	31.5 mm
Width	10.8 mm
Net weight	0.020 kg
Kit composition	Transmitter + receiver




Environment

Product certifications	UL CE
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	+/-0.5 mm (f = 10...55 Hz) for every axis conforming to IEC 60068-2-6
Shock resistance	30 gn for every axis conforming to IEC 60068-2-27
IP degree of protection	IP67 conforming to IEC 60529 IP54 conforming to IEC 60529

Packing Units

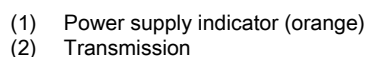
Package 1 Weight	19.000 g
Package 1 Height	20.000 mm
Package 1 width	11.000 mm
Package 1 Length	70.000 mm

Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes

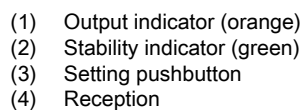
Transmitter. Connector Version

A diagram of a control panel. On the left, there are two vertical rectangular buttons. To the right of these is a larger square button. An arrow points from the label (1) to this square button.

$$\frac{\text{mm}}{\text{in.}}$$


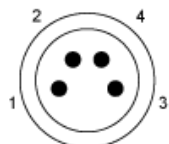
Receiver. Connector Version

A diagram of a mobile phone with three labels: (1) points to the earpiece, (2) points to the camera, and (3) points to the screen.

$$\frac{\text{mm}}{\text{in.}}$$


Connections and Schema

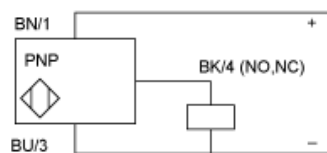
M8 Connector



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

Connections and Schema

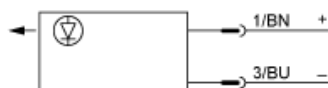
PNP



- BN : Brown
- BU : Blue
- BK : Black

Connections and Schema

DC Transmitter



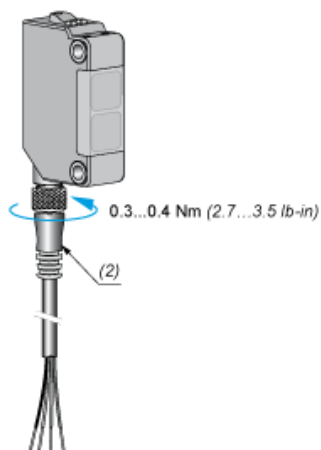
- BN : Brown
- BU : Blue

Mounting and Clearance

Tightening Torques



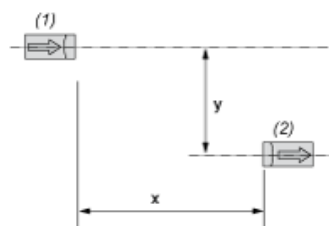
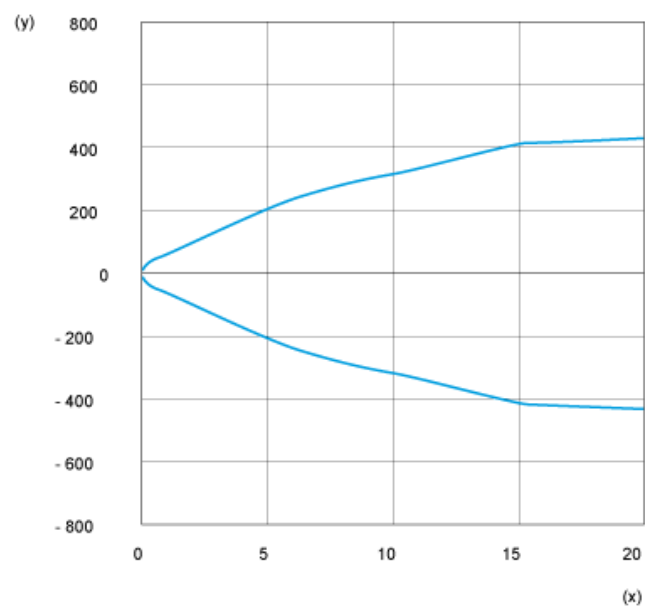
(1) Base mounting fixing bracket



(2) Pre-wired M8 connector

Performance Curves

Thru-beam System



- (1) Transmitter
- (2) Receiver
- (y) Parallel movement in mm
- (x) Distance in m