

# XUM2ANSBM8

## PHOTOELECTRIC SENSOR MINIATURE THRU BEAM SN=15M NPN CONNECTOR M8

Product Life Status : **COMMERCIALIZED**

TODAY  
FEB 22, 2021

End of Commercialization  
JUN 03, 2021



### 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	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Male connector M8, 4 pins
Emission	Red thru beam
[Sn] nominal sensing distance	15 m

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### Complementary

Enclosure material	PBT
Lens material	Modified polyarylate
Output type	Solid state
Status LED	Transmitter/Supply on: 1 LED (orange) Receiver/Output: 1 LED (orange) Receiver/stability: 1 LED (green)
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10.2...26.4 V DC
Switching capacity in mA	<= 50 mA with overload and short-circuit protection
Switching frequency	<= 500 Hz
Maximum voltage drop	<2 V
Current consumption	25 mA no-load
Maximum delay first up	100 ms
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Setting-up	Sensitivity adjustment by pushbutton

Depth	20 mm
Height	34 mm
Width	11 mm
Net weight	0.019 kg
Kit composition	Transmitter + receiver XUM2AKSBM8T + XUM2ANSBM8R




## Environment

Product certifications	RCM UL CE
Ambient air temperature for operation	-30...55 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	+/- 1.5 mm (f = 10...55 Hz) 2 hours in each direction X, Y and Z conforming to IEC 60068-2-6
Shock resistance	500 m/s <sup>2</sup> for X, Y, Z directions for 10 cycles (approx. 100 min) conforming to IEC 60068-2-27
IP degree of protection	IP67 conforming to IEC 60529

## Packing Units

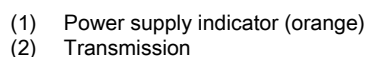
Package 1 Weight	19.000 g
Package 1 Height	20.000 mm
Package 1 width	11.000 mm
Package 1 Length	70.000 mm

## Offer Sustainability

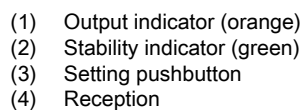
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>

### Transmitter. Connector Version

(1)

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


## Receiver. Connector Version

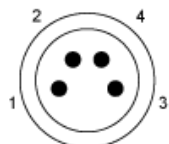
$$\frac{\text{mm}}{\text{in.}}$$


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## Connections and Schema

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### M8 Connector



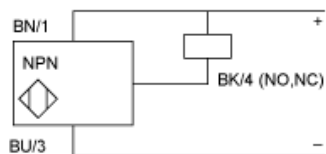
- 3 : (-)
- 1 : (+)
- 4 : OUT/Output

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## Connections and Schema

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### NPN



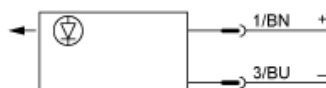
- BN : Brown
- BU : Blue
- BK : Black

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## Connections and Schema

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### DC Transmitter



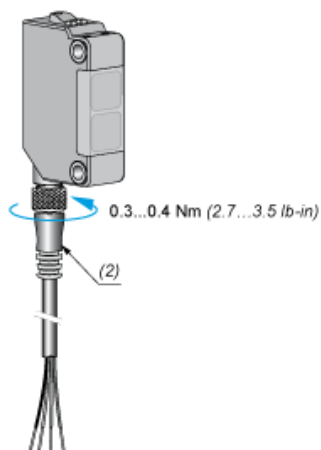
- BN : Brown
- BU : Blue

## Mounting and Clearance

### Tightening Torques



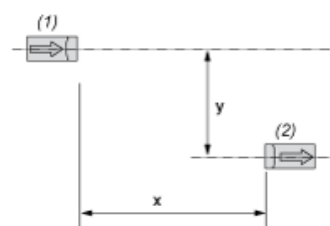
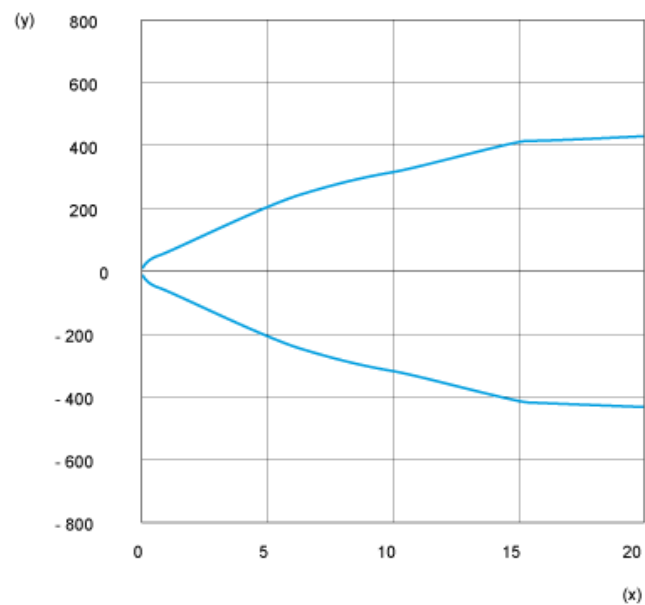
(1) Base mounting fixing bracket



(2) Pre-wired M8 connector

## Performance Curves

### Thru-beam System



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