

# XUY474NB4H03M12

Roller Sensor for Conveyor 474 MM N4- ES93  
IP50 Hex Fix Cable 30cm- connect M12



## Main

Range of product	OsiSense XU
Series name	Application
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Roller sensor
Detection system	Diffuse
Material	Metal
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 remote male connector M12, 4 pins
Cable length	0.3 m
Product specific application	Conveyor system
Emission	Infrared
[Sn] nominal sensing distance	0.1 m diffuse

## Complementary

Enclosure material	Aluminium
Lens material	Polycarbonate
Cover material	PVC
Pulse frequency	1 kHz
Output type	Solid state
Status LED	1 LED color: yellow for output signal
[Us] rated supply voltage	24 V DC with reverse polarity protection
Supply voltage limits	18...30 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)
Switching frequency	500 Hz
Maximum voltage drop	<2 V at 100 mA (closed state)
Current consumption	< 35 mA no-load
Maximum delay response	1 ms
Diameter	12 mm
Length	474 mm
Net weight	0.075 kg

## Environment

Product certifications	CCSAus CE
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-20...80 °C
IP degree of protection	IP50 conforming to IEC 60529

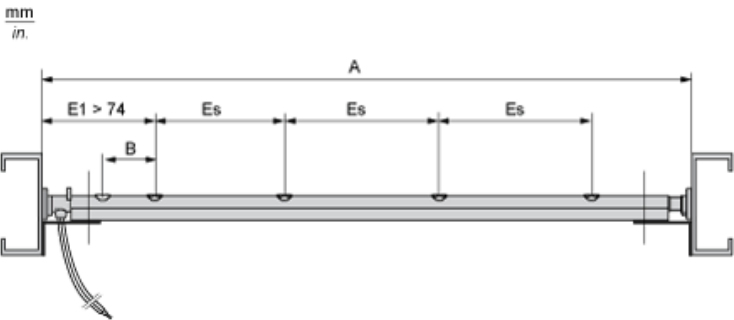
## Packing Units

Package 1 Weight	0.800 kg
Package 1 Height	0.900 dm
Package 1 width	0.900 dm
Package 1 Length	6.300 dm

## Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
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Dimensions



Dimensions in mm

A	B	ES
474	10.4	93.1

Dimensions in in.

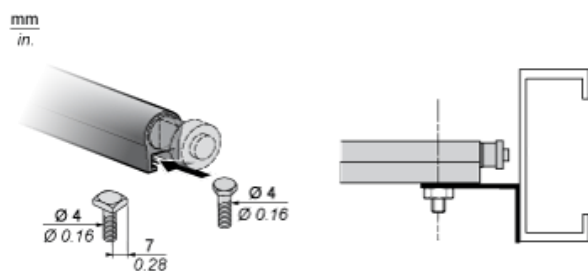
A	B	ES
18.67	0.41	3.67

## Mounting

Mounting on the Sides Hexagonal Supports (2 of Each Support are Supplied with the Sensor)

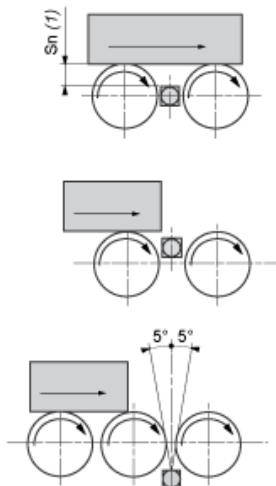


Mounting Underneath (Brackets, Screws and Nuts not Supplied)



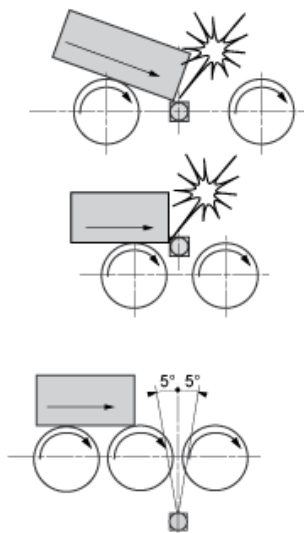
## Mounting Precautions

Recommended mounting



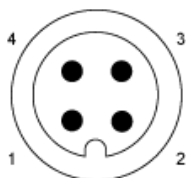
(1)  $S_n \leq 100 \text{ mm}$

Not recommended



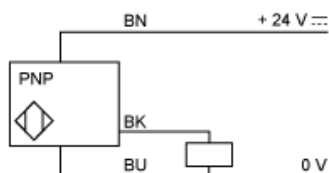
## Wiring Schemes

### M12 Connector



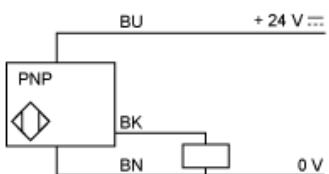
- 1 : Brown
- 2 : White (disconnected)
- 3 : Blue
- 4 : Black

### PNP, NO Output



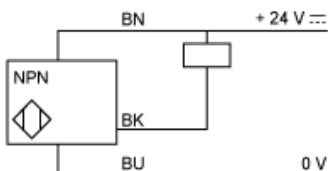
- BN : Brown
- BU : Blue
- BK : Black

### PNP, NC Output



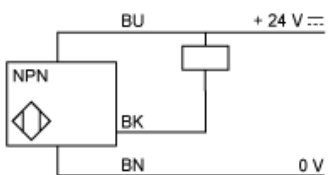
- BN : Brown
- BU : Blue
- BK : Black

### NPN, NC Output



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

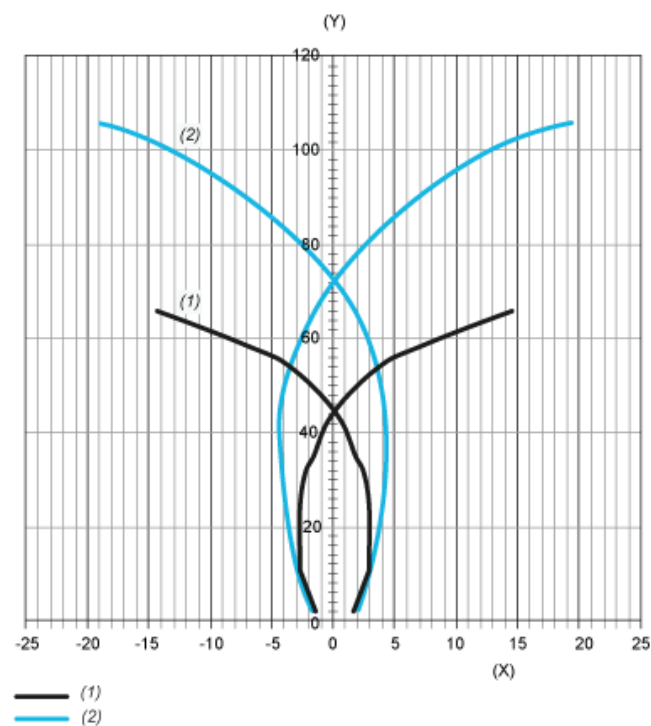
### NPN, NO Output



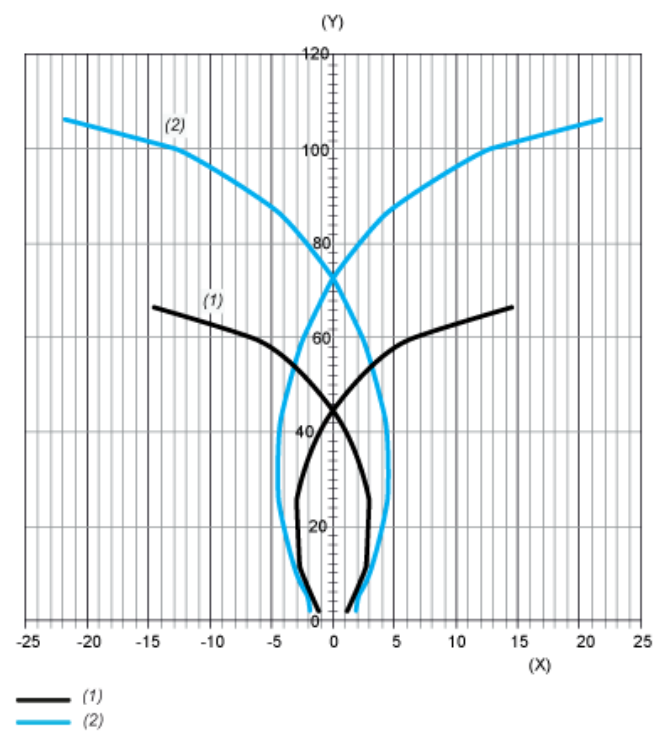
- BN : Brown
- BU : Blue
- BK : Black

## Detection Curves

### Conveyor Axis - Load Running Direction



## Roller Axis - Direction at Right-angles to Load Running



- (1) Black 6%
- (2) White 92%
- (x) Distance between the target and the optical axis in mm
- (y) Distance between the target and the sensor in mm