

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
Voltage drop	< 2 V at 100 mA (closed state)
Current consumption	< 35 mA (no-load)
Delay response	1 ms
Diameter	12 mm
Length	474 mm
Product weight	0.075 kg

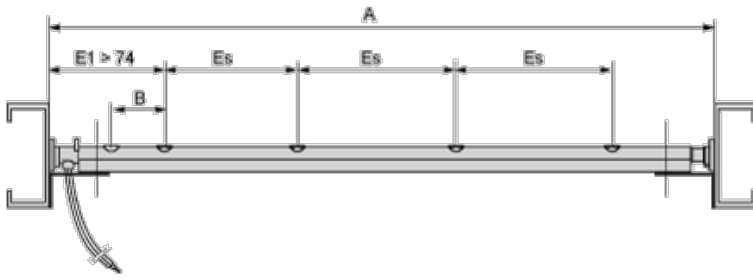
Environment

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

Dimensions

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

mm
in.



Dimensions in mm

A	B	ES
474	10.4	93.1

Dimensions in in.

A	B	ES
18.67	0.41	3.67

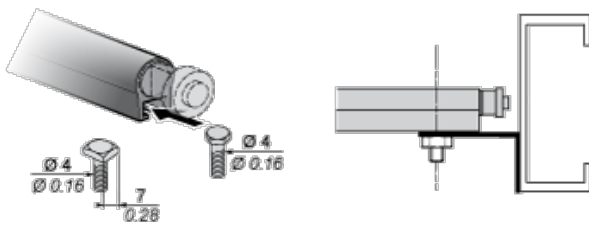
Mounting

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



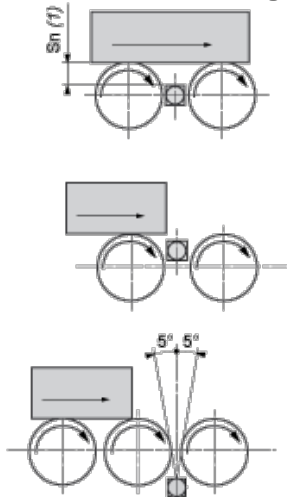
Mounting Underneath (Brackets, Screws and Nuts not Supplied)

mm
in.



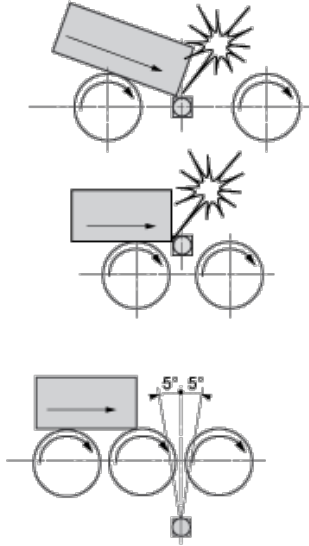
Mounting Precautions

Recommended mounting



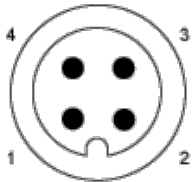
(1) $S_n \leq 100 \text{ mm}$

Not recommended



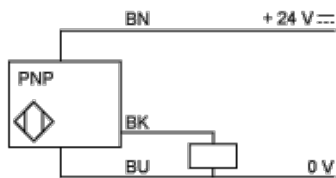
Wiring Schemes

M12 Connector



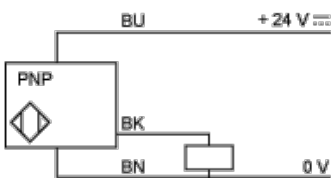
- 1 : Brown
- 2 : White (disconnected)
- 3 : Blue
- 4 : Black

PNP, NO Output



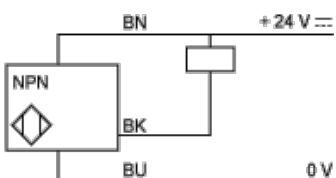
- BN : Brown
- BU : Blue
- BK : Black

PNP, NC Output



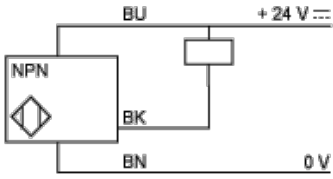
- BN : Brown
- BU : Blue
- BK : Black

NPN, NC Output



BN : Brown
 BU : Blue
 BK : Black

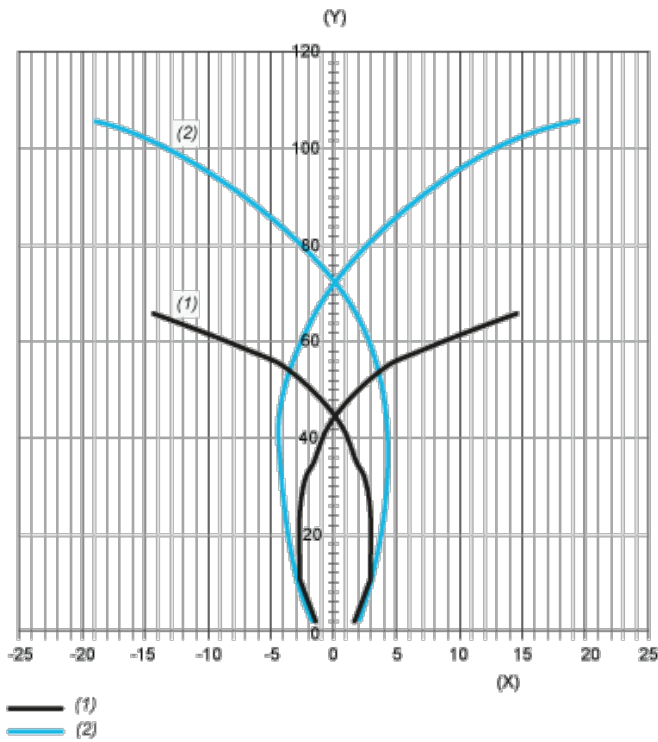
NPN, NO Output



BN : Brown
 BU : Blue
 BK : Black

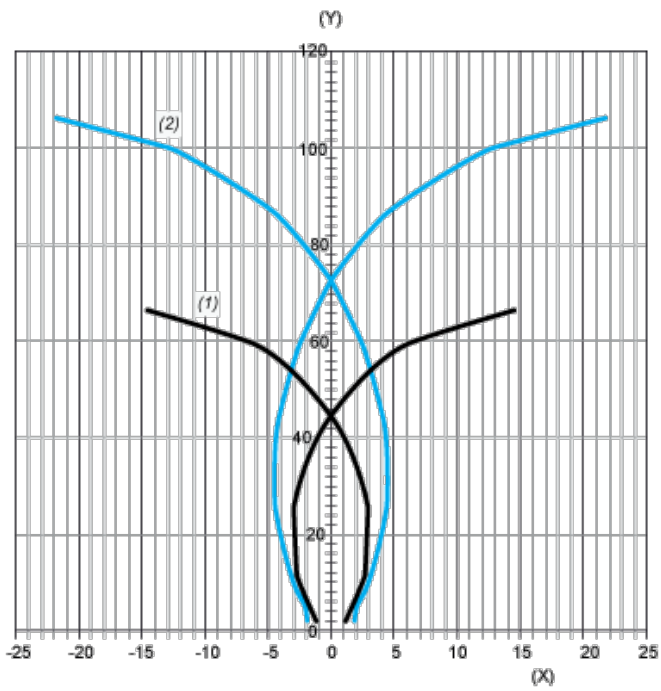
Detection Curves

Conveyor Axis - Load Running Direction



- (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

Roller Axis - Direction at Right-angles to Load Running



— (1)
— (2)

- (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