

XUY474NB4H2

Photoelectric sensors XU, Roller Sensor
474 mm N4, P93.1 IP50 Hexa 11,2 Cable 2
m,Wires



Main

Range of product	Telemecanique Photoelectric sensors 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	Cable
Cable length	2 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	0.085 kg

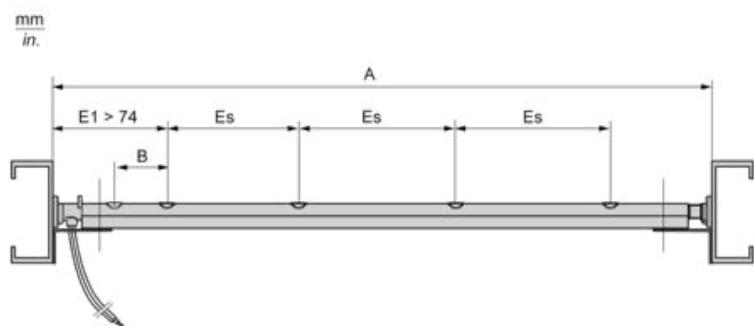
Environment

Product certifications	CE[RETURN]cCSAus
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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10 cm
Package 1 Width	10 cm
Package 1 Length	10 cm
Package 1 Weight	700 g

Dimensions



Dimensions in mm

A	B	ES
474	10.4	93.1

Dimensions in in.

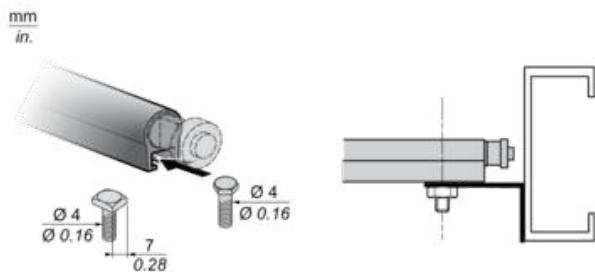
A	B	ES
18.67	0.41	3.67

Mounting

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

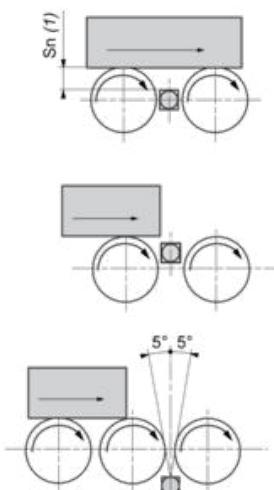


Mounting Underneath (Brackets, Screws and Nuts not Supplied)



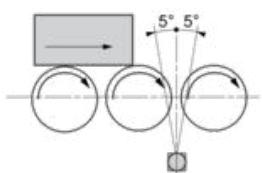
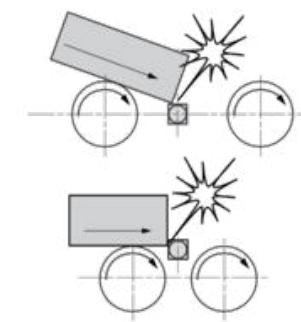
Mounting Precautions

Recommended mounting



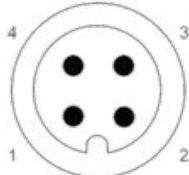
(1) $Sn \leq 100$ mm

Not recommended



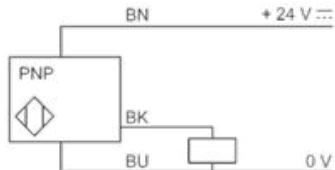
Wiring Schemes

M12 Connector



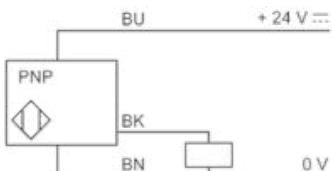
1 : Brown
2 : White (disconnected)
3 : Blue
4 : Black

PNP, NO Output



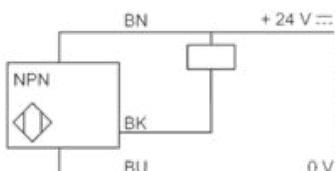
BN : Brown
BU : Blue
BK : Black

PNP, NC Output



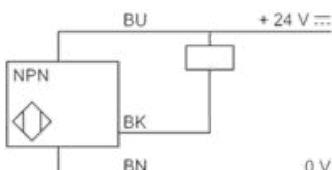
BN : Brown
BU : Blue
BK : Black

NPN, NC Output



BN : Brown
BU : Blue
BK : Black

NPN, NO Output



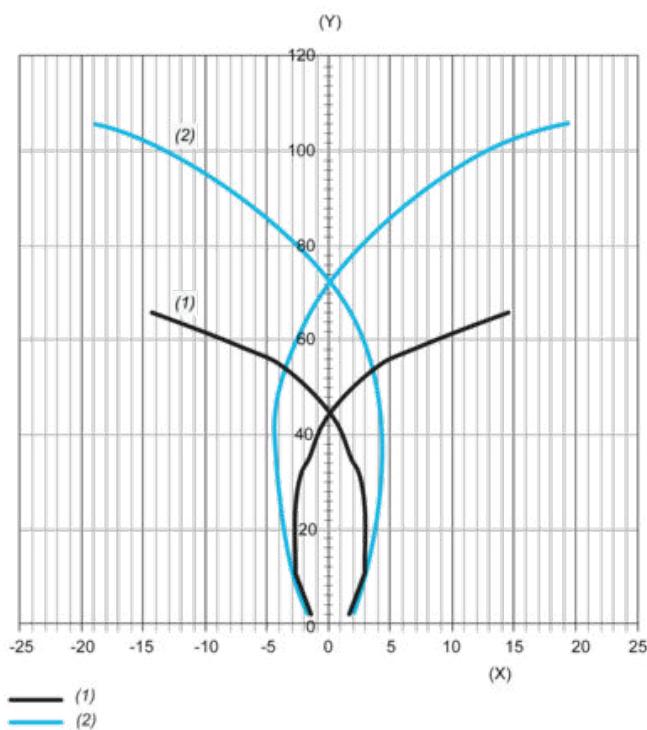
BN : Brown

BU : Blue

BK : Black

Detection Curves

Conveyor Axis - Load Running Direction



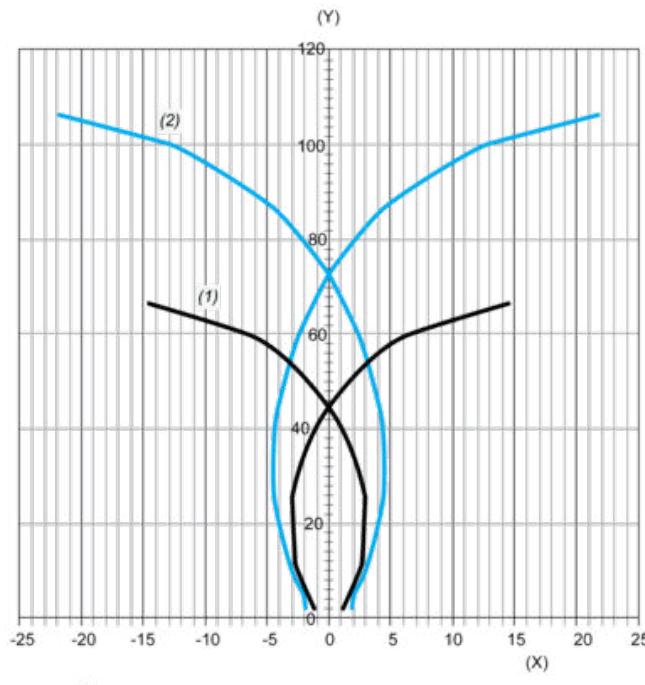
(1) Black 6%

(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) 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