# Product datasheet Characteristics

# XUY410NC3H03M12

Roller Sensor for Conveyor 410 MM N3- ES108 IP50 Hex Fix Cable 30cm- connect M12



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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	<u> </u>
Cover material	PVC	
Pulse frequency	1 kHz	
Output type	Solid state	-
Status LED	1 LED color: yellowfor output signal	
[Us] rated supply voltage	24 V DC with reverse polarity protection	
Supply voltage limits	1830 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)	į
Current consumption	< 35 mA no-load	
		2.

Maximum delay response	1 ms
Diameter	12 mm
Length	410 mm
Net weight	0.065 kg

# Environment

Product certifications	CCSAus CE
Ambient air temperature for operation	-1055 °C
Ambient air temperature for storage	-2080 °C
IP degree of protection	IP50 conforming to IEC 60529

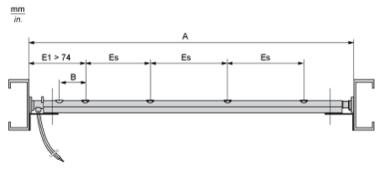
# Contractual warranty

Warranty	18 months

# Product datasheet Dimensions Drawings

# XUY410NC3H03M12

# **Dimensions**



#### Dimensions in mm

Α	В	ES
410	29	108

#### Dimensions in in.

A	В	ES
16.14	1.14	4.25

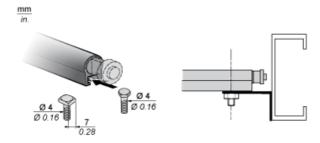
# XUY410NC3H03M12

# Mounting

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

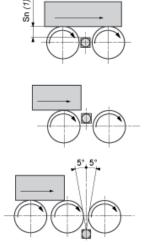


# Mounting Underneath (Brackets, Screws and Nuts not Supplied)

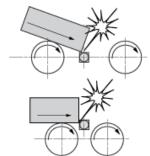


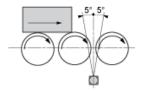
## **Mounting Precautions**

#### Recommended mounting



# Not recommended



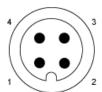


# Product datasheet Connections and Schema

# XUY410NC3H03M12

# Wiring Schemes

#### M12 Connector

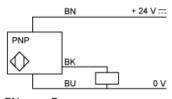


1: Brown

2: White (disconnected)

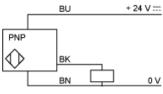
3: Blue 4: Black

## PNP, NO Output



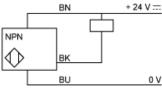
BN: Brown
BU: Blue
BK: Black

## PNP, NC Output



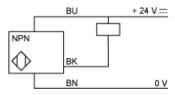
BN: Brown
BU: Blue
BK: Black

# NPN, NC Output



BN: Brown
BU: Blue
BK: Black

# NPN, NO Output



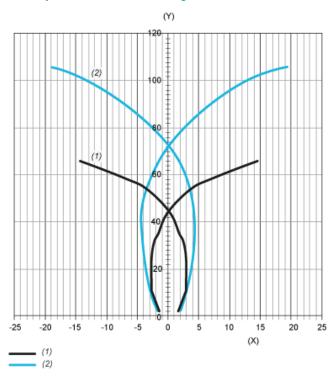
BN: Brown
BU: Blue
BK: Black

# Product datasheet Performance Curves

# XUY410NC3H03M12

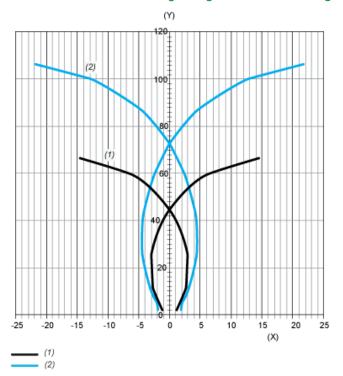
## **Detection Curves**

# Conveyor Axis - Load Running Direction



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

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



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