Telemecanique Sensor’s OsiSense™ XUY photoelectric sensors are really innovative for fast and smart integration in conveyor systems.

Fast, modular & best installation time:
The sensor is mounted between rollers from the top. No more missing screws to mount your bracket and sensor.

Plug & Play: to see any package, no color effect, and no environment teaching.

Dust protection: special lenses and LED power to avoid dust accumulation.

Impact resistant: unique mechanical installation embedded within the conveyor frame to prevent product damage.

Full automation integration:
The sensor is compatible with zone controllers from current motorized roller manufacturers or with standard PLC platforms. Different connectors or cable wires are offered.

Typical areas of application:
- detection of packet, boxes, pallets and letters of paper, carton or metallic material.

Well suited for use in:
- conveying for manufacturing facilities, warehouses, and retail distribution centers.

Do you want to simplify the sensor integration in your conveyor systems?

New XUY roller sensors for packet, boxes, letters on roller conveyors.

Watch a video and see firsthand how easy the XUY Roller Conveyor Sensor is to mount and operate.
Benefits

Fast and simple installation:
- No tools needed
- Easy mounting from the top
- Gain of 50% in installation and adjustment
- 3 mounting solutions (Hexagonal 7/16”, Ø 8 mm, or adhesive supports)

Full detection:
- No package color effecting sensor performance due to reliable infra-red sensing technology
- Easy direction adjustment, every 30°
- Full length detection from multiple sensors embedded within the sensor housing
- Convex lens to avoid dust accumulation

Characteristics

OsiSense™ XUY Roller Sensor
- Number of sensors: from 1 to 6 alongside the tube
- Detection mode: diffuse infrared
- Sensing distance up to 100 mm
- Dimension: Ø 12 mm, from 200 to 900 mm
- Material case / lens: aluminum / PMMA
- 3 mounting solutions with spring effect:
  - Hexagonal 7/16”
  - Ø 8 mm
  - Adhesive part
- Supply voltage: 24 V DC
- Connection: M12, 4 pins connector or cable
- Output: PNP/NPN, NO/NC programmable
- Switching frequency: 500 Hz
- Operating temperature: -10°C to 50°C
- Degree of protection: IP 50 (IP 65 on request)

Please contact Telemecanique Sensors for other length of conveyor lengths (200 to 900 mm)
Photo-electric sensors
OsiSense XU Application, conveying series
For detecting packages on a roller conveyor
DC supply, solid-state output

Product Specification

OsiSense™ XUY
XUY415N4HL2
XUY415N4HL03M12

No./ reference: 1

Mechanical Characteristics:
- Dimension (width): 415 mm, from 200 to 900 upon request
- Number of sensors: 4 (number of sensors is determined by the overall conveyor width)
- Diameter (case): 12 mm
- Sensor pitch: 84 mm
- Connection: M12 4 pins connector or cable
- Mounting: Hexagonal 7/16", Ø 8mm or adhesive
- Material: Case - Aluminium and PA; Lens - PC

Detection performances:
- Detection mode: Diffuse infrared
- Nominal sensing distance: 100 mm
- Minimum object size: 85 mm
- Maximum flow rate: 60 m/min

Electrical Characteristics:
- Voltage limits: 18 to 36 Volts DC (including ripples)
- Current consumption: 35 mA
- Output LED: Yellow
- Switiching capacity: 100 mA with overload and short circuit protection
- Switching frequency: 500 Hz

Environmental characteristics:
- Operating temperature: -10°C to 50°C
- IP class: IP50 (IP65 upon request)

References of accessories:
- No. of references: 1
- Designation: M12 jumpers
- Length: 1 m
- Weight: 0.166 kg

(1) These sensors are adapted for use on a 414-418 mm wide conveyor frame (L = 1 m, H = 3 m).
Mounting accessory included with this sensor is for 7/16" hexagonal frame.
Please consult Sensor Competency Center for any additional sizes, configurations, mounting, or other requirements.

[Diagram of roller conveyor sensor with sensor specifications]
For this example, XUY415.. is available for any conveyor width from 414 to 418 mm (-1, +3 mm)

* Future capability. Call local field sales office for more information and availability.

Important Note: Not all configurations may be possible.
### XUY Roller Conveyor Sensor

**Catalog Number Configuration**

#### XUY 415 N 4 H L2

<table>
<thead>
<tr>
<th>Reference</th>
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<th>E2</th>
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<td>800-980</td>
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</table>

#### Functions

- No Additional Function: N
- Timer*: T
- ZPA function (zero pressure accumulation)*: Z

#### Mounting Style

- Hexagonal 7/16": H
- Adhesive part: A
- Diameter 8mm: D

#### Cabling

- Cabling material: M 12x1 (D)
- Cabling length: 0,3 m (L)
- Connector M 12 with 0,3 m cable: L 11

For this example, XUY415.. is available for any conveyor width from 414 to 418 mm (-1, +3 mm)

* Future capability. Call local field sales office for more information and availability.

Important Note: Not all configurations may be possible.
# Product Specification

**OsiSense™ XUY:**
- **Model:** XUY415N4HL2 / XUY415N4HL03M12
- **Compatibility:** PNP/NPN, NO/NC by cabling
- **Cable Length:** 2m or remote M12 connector

**Mechanical Characteristics:**
- **Width:** 415 mm, from 200 to 900 upon request
- **Number of Sensors:** 4 (number of sensors is determined by the overall conveyor width)
- **Diameter:** 12 mm
- **Sensor Pitch:** 84 mm
- **Connection:** M12 4-pin connector or cable
- **Mounting:** Hexagonal 7/16”, Ø 8 mm or adhesive
- **Material:** Case: Aluminium and PA, Lens: PC

**Detection Performance:**
- **Detection Mode:** Diffuse infrared
- **Nominal Sensing Distance:** 100 mm
- **Minimum Object Size:** 85 mm
- **Maximum Flow Rate:** 60 m/mn

**Electrical Characteristics:**
- **Voltage:** 18 to 36 Volts DC (including ripples)
- **Current Consumption:** 35 mA
- **Output LED:** Yellow
- **Switching Capacity:** 100 mA with overload and short circuit protection
- **Switching Frequency:** 500 Hz

**Environmental Characteristics:**
- **Operating Temperature:** -10°C to 50°C
- **IP Class:** IP50 (IP65 upon request)

### References of accessories

<table>
<thead>
<tr>
<th>Designation</th>
<th>Length (m)</th>
<th>Reference</th>
<th>Weight (kg)</th>
</tr>
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<tbody>
<tr>
<td>M12-M12 jumper cable</td>
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<td>XZ CR15109141C4</td>
<td>0.095</td>
</tr>
</tbody>
</table>

(1) These sensors are adapted for use on a Ø14-418 mm conveyor frame (L = 2m).
Mouting accessory included with the sensor is for 7/16” hexagonal frame.
Please consult Sensor Competency Center for any additional items, configurations, mounting, or other requirements.
Benefits

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Connections

M12 connector
- Pin and colour
  - 1 BN: Brown
  - 2 WH: White
  - 4 BK: Black
- Programmable, NO or NC output
  - 4-wires
  - 3-wires

Dimensions (mm)

<table>
<thead>
<tr>
<th>A</th>
<th>Sensor</th>
<th>E1</th>
<th>E2</th>
</tr>
</thead>
<tbody>
<tr>
<td>415</td>
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<td>100</td>
</tr>
<tr>
<td>240</td>
<td>220</td>
<td>x 3</td>
<td>240</td>
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<tr>
<td>350</td>
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<tr>
<td>700</td>
<td>800</td>
<td>x 14</td>
<td>800</td>
</tr>
</tbody>
</table>

Mounting

Parts for mounting the sensor (included with the sensor):
- 7/16" (11 mm) hexagonal frame

Mounting precautions

Recommended mounting
- Adhesive frame
- Ø 8 mm frame, with adhesive mounting

Not recommended

Application example

Package detection - sensor mounted between motorized rollers

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