



## Main

Range of product	OsiSense XU
Series name	Application
Electronic sensor type	Photo-electric sensor
Sensor name	XUPK
Detection system	Diffuse Reflex
Emission	Infrared
[Sn] nominal sensing distance	0.33 ft (0.1 m) 0.6 m
Discrete output function	1 NO
Discrete output type	PNP
Electrical connection	2 female connector : RJ45
Material	PC (polycarbonate)

## Complementary

Operating mode	Daisy chain
Product destination	XUPH
Topology	Manual teaching single chain with power supply XUPH : manual teaching daisy chain XUPH : PLC program daisy chain
Device application	Picking system
Maximum sensing distance	<= 0.15 m, diffuse infrared with dynamic threshold <= 0.6 m, reflex infrared with reflector
Hysteresis	<= 15 %
Output type	Solid state PNP (NO)
[Us] rated supply voltage	12...24 V
Discrete input voltage	12...24 V
Maximum output current	100 mA
Voltage drop	<= 2 V at output
Current consumption	<= 50 mA, no-load
Delay response	200 ms
Delay recovery	200 ms
Number of connected devices	14 daisy chain 64
Status LED	2 LED green parts to be taken 1 LED red wrong taken
Switching capacity in mA	100 mA
Setting-up	Without sensitivity adjustment
Overvoltage category	II
Fixing mode	By clamp By screws
Depth	1.3 in (33 mm)
Height	1.57 in (40 mm)
Length	3.62 in (92 mm)
Product weight	0.08 lb(US) (0.035 kg)

## Environment

product certifications	CE
ambient air temperature for operation	14...140 °F (-10...60 °C)
environmental characteristic	EMC conforming to EN 60947-5-2

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## Offer Sustainability

Not Green Premium product

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WARNING: This product can expose you to chemicals including:

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Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and

cancer, and

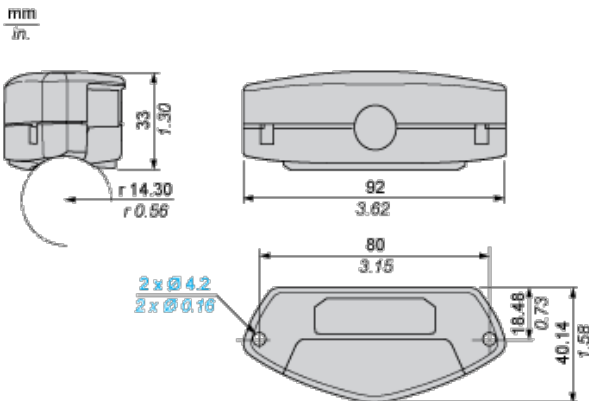
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

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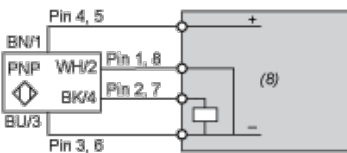
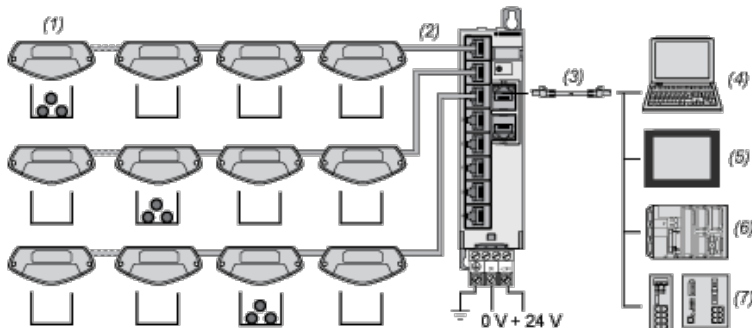
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## Dimensions



## Control by a PC or PLC through the XUPH Ethernet Modbus TCP - IP Communication Box



(1) Daisy chain of Picking Sensors XUPK2 on the Ethernet Modbus TCP-IP communication box XUPH001

### Daisy Chain

- maximum chain of Picking Sensors in a line = 14 (in the example = 4 Picking Sensors)
- maximum number of lines : 8 (in the example = 3 lines)
- maximum number of Picking Sensors on XUPH Communication box : = 64 (in the example = 12 Picking Sensors)

(2) Cable RJ45/RJ45, straight.

(3) Ethernet Cable RJ45/RJ45, straight.

(4) PC: Personal Computer.

(5) HMI: Human Machine Interface.

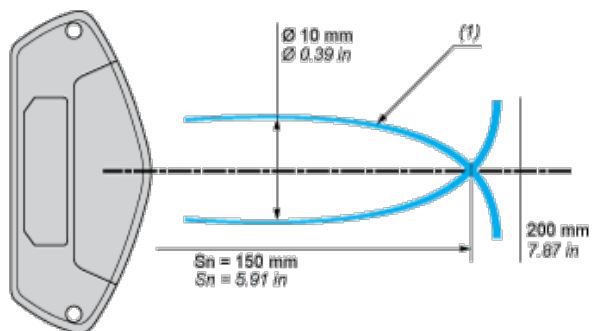
(6) PLC: Programmable Logic Controller.

(7) Ethernet hub or switch.

(8) Communication box

## Detection Curves

### Detection in a 10 mm/0.39 in. Tubular Beam

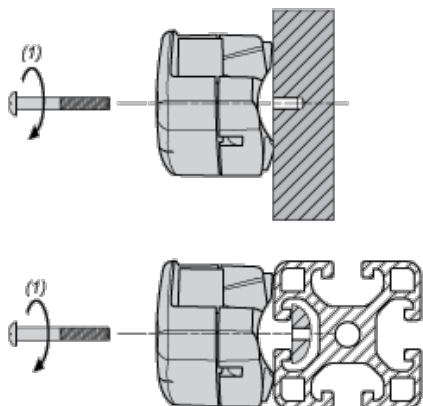


(1) Detection zone

$S_n$  : Sensing distance

## Mounting

### Mounting on a Flat Pannel (Fixation Holes M4)



(1) Maximum tightening torque: 0,8 Nm / 7.08 lb-in.

### Mounting on Tubes (with Plastic Clamps)

