



### 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	0.1 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 devices	<= 14 daisy chain <= 64
Status LED	2 LED green for parts to be taken 1 LED red for wrong taken
Switching capacity in mA	100 mA
Setting-up	Without sensitivity adjustment
Overvoltage category	II
Fixing mode	By clamp By screws
Depth	33 mm
Height	40 mm
Length	92 mm
Product weight	0.035 kg

### Environment

Product certifications	CE
Ambient air temperature for operation	-10...60 °C
Environmental characteristic	EMC conforming to EN 60947-5-2

## Offer Sustainability

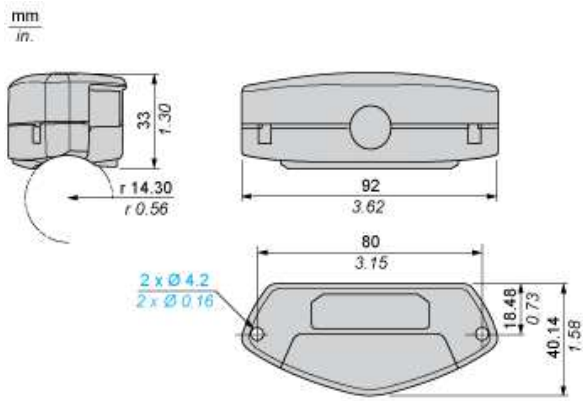
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Sustainable offer status

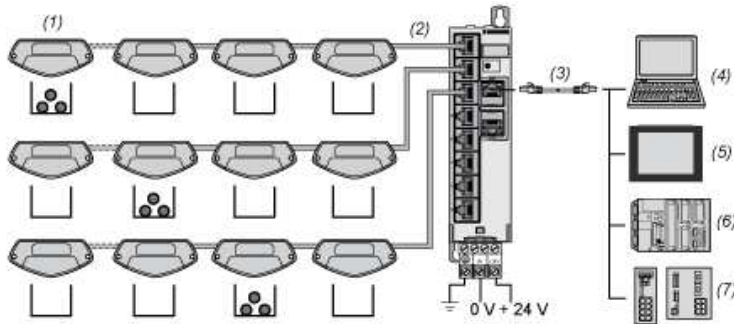
Not Green Premium product

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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

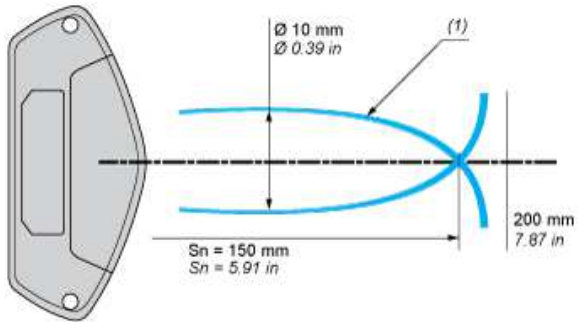
- maximum chain of Picking Sensors in a line = 14 (in the example = 4 Picking Sensors)
  - maximum number of lines : 8 (in the example = 3 lines)
  - maximum number of Picking Sensors on XUPH Communication box : = 64 (in the example = 12 Picking Sensors)
  - The total cable length must not exceed 1 meter by Picking Sensor in average : for 15 XUPK, the total length of the chain of Picking Sensors has to be less than 15 meters.
- (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.

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Detection Curves

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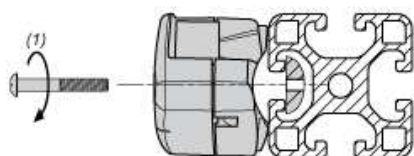
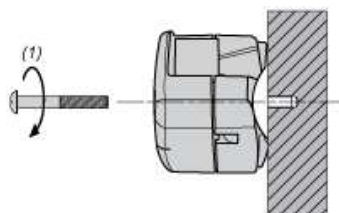
Detection in a 10 mm/0.39 in. Tubular Beam



(1) Detection zone  
 $S_n$  : Sensing distance

## Mounting

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



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

### Mounting on Tubes (with Plastic Clamps)

