Product data sheet
Characteristics

XUYFNEP40120
photo-electric sensor - XUY - fork - pot +/- - 120X42mm - 12..24VDC - M8

Main

Range of product	OsiSense XU
Series name	Application
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Fork
Detection system	Thru beam
Emission	Infrared LED, modulated
Passage width	120 mm
Passage depth	42 mm
Material	Metal/plastic
Supply circuit type	DC
Wiring technique	4-wire
Discrete output type	PNP and NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M8, 4 pins
Product specific application	Detection of double sheet Detection of labels Detection of reference marks Detection on vibrating rail Detection on small conveyor
[Sn] nominal sensing distance	120 mm

Complementary

Enclosure material	Painted aluminium and polyamide/glass
Keypad type	Green
Minimum object diameter for detection	0.2 mm
Type of output signal	Discrete
Output type	Solid state
Status LED	1 LED (red) for adjustment mode and keypad locking 1 LED (yellow) for output state
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)

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Switching frequency	10 kHz
Voltage drop	< 2 V (closed state)
Current consumption	40 mA (no-load)
Load capacitance	330 nF
Time response	-20...20 µs
Setting-up	Sensitivity by numeric potentiometer
Product weight	0.19 kg

Environment

|	
Product certifications	CE cULus
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-30...80 °C
Immunity to ambient light	10000 lux with natural light 5000 lux with incandescent bulb
Vibration resistance	7 gn, amplitude = +/- 0.75 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP65 conforming to IEC 60529

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0648 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity

Contractual warranty

Warranty period	18 months

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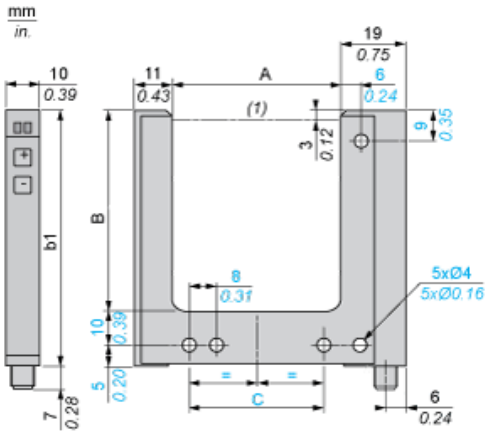
Dimensions

(1)   Optical axis

Dimensions in mm

A	B	b1	C
120	42	57	110

Dimensions in in.

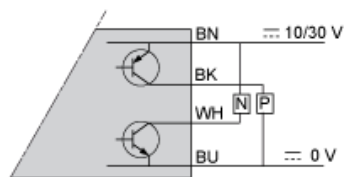| A	B	b1	C
4.72	1.65	2.24	4.33

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Wiring Schemes

M8 Connector
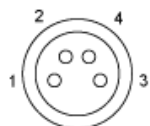
1 :   BN: Brown
2 :   WH: White
3 :   BU: Blue
4 :   BK: Black

4-Wire, PNP/NPN Outputs

BN :   Brown
WH :   White
BK :   Black
BU :   Blue

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