



Main

Range of product	OsiSense XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XUM
Sensor design	Miniature
Detection system	Diffuse with background suppression
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Cable
Cable length	6.56 ft (2 m)
Product specific application	-
Emission	Red diffuse with background suppression
[Sn] nominal sensing distance	0.98 ft (0.3 m) diffuse with background suppression

Complementary

Enclosure material	PBT
Lens material	PC
Maximum sensing distance	0.98 ft (0.3 m) diffuse with background suppression
Output type	Solid state
Wire insulation material	PVC
Status LED	1 LED (red) instability 1 LED (yellow) output state
[Us] rated supply voltage	12...24 V DC
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 500 Hz
Voltage drop	<= 1.5 V (closed state)
Current consumption	35 mA (no-load)
Delay first up	30 ms
Delay response	1 ms
Delay recovery	1 ms
Setting-up	Without sensitivity adjustment
Depth	1.06 in (27 mm)
Height	1.5 in (38 mm)
Length	0.43 in (11 mm)
Width	0.47 in (12 mm)
Product weight	0.18 lb(US) (0.08 kg)

Environment

product certifications	CE CSA UL
ambient air temperature for operation	-13...131 °F (-25...55 °C)
ambient air temperature for storage	-22...158 °F (-30...70 °C)

immunity to ambient light	3000 lux with natural light 3000 lux with incandescent light
vibration resistance	7 gn, amplitude = +/- 1.5 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 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529

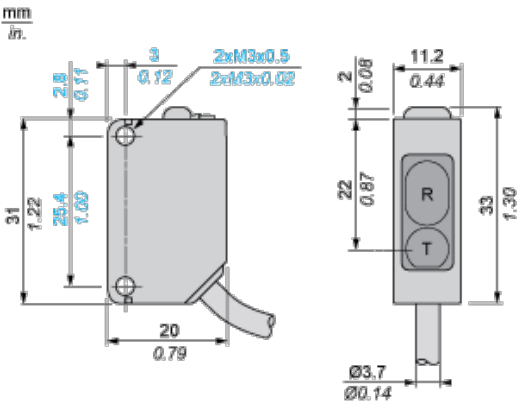
Offer Sustainability

Not Green Premium product	Not Green Premium product
Compliant - since 1210 - Schneider Electric declaration of conformity	Compliant - since 1210 - Schneider Electric declaration of conformity
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

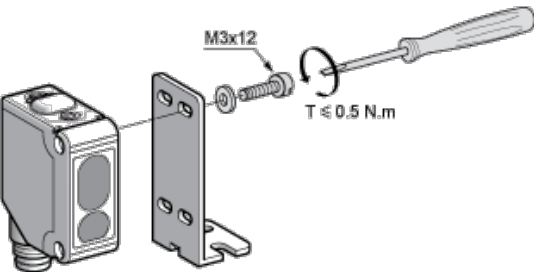
Warranty period	18 months
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Dimensions



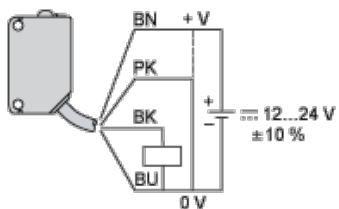
R : Reception
T : Transmission

Mounting



Wiring Schemes

PNP Output



(-) Blue

BU :

(+) Brown

BN :

(OUT)Black

BK :

(MODE)Pink

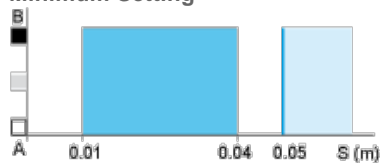
PK :

Note :This scheme is represented in "background suppression" mode, cabling of pink (PK) wire to 0 V

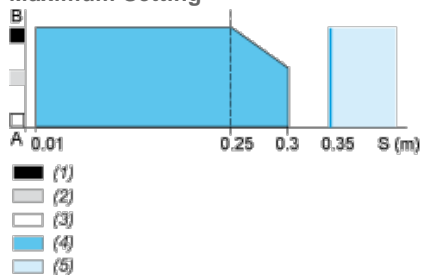
Detection Curves

Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B :Object reflection coefficient

(1) Black 6%

(2) Grey 18%

(3) White 90%

(4) Sensing range

(5) Non sensing zone (matt surfaces)