Product datasheet Characteristics

XUM8APCNL03M12



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	Remote male connector M12, 4 pins	
Cable length	0.98 ft (0.3 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

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 (green) instability 1 LED (orange) output state
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Supply voltage limits	1030 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Voltage drop	<= 2 V (closed state)
Current consumption	<= 20 mA (no-load)
Delay first up	< 100 ms
Delay response	< 1 ms
Setting-up	Sensitivity adjustment by potentiometer
Depth	0.79 in (20 mm)
Height	1.3 in (33 mm)
Length	0.43 in (11 mm)
Width	0.43 in (11 mm)
Product weight	0.04 lb(US) (0.02 kg)

Environment

product certifications	CE CURus	
ambient air temperature for operation	-13131 °F (-2555 °C)	
ambient air temperature for storage	-22158 °F (-3070 °C)	
immunity to ambient light 3000 lux with natural light 3000 lux with incandescent light		
vibration resistance	20 gn, amplitude = +/- 1.5 mm (f = 10500 Hz) conforming to IEC 60068-2-6	



shock resistance	50 gn (duration = 11 ms) conforming to IEC 60068-2-27	
IP degree of protection	IP67 conforming to IEC 60529	

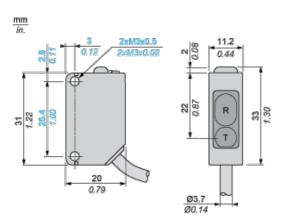
Offer Sustainability

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.	eDi-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

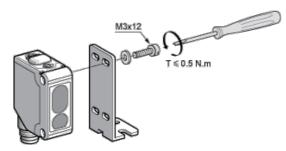
<u> </u>		
Warranty period	18 months	

Dimensions



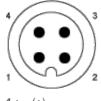
- R: Reception
- T: Transmission

Mounting



Wiring Schemes

M12 Connector

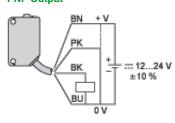


1: (+) 2: Mode/Input





PNP Output

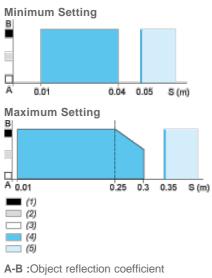


- BU : Blue
- BN : Brown
- BK : Black
- PK : Pink

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

Detection Curves

Variation of Usable Sensing Distance



- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

