XUB0ANSNM12

photo-electric sensor - XUB - multi - Sn 0..20m - 12..24VDC - M12



Main

Range of product	OsiSense XU
Series name	General purpose multimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Multimode
Material	Plastic
Line of sight type	Axial
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	0.12 m diffuse with background suppression 0.3 m diffuse 3 m polarised reflex need reflector XUZC50 20 m thru beam need a transmitter XUB0AKSNM12T

Complementary

Complementary	
Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	0.12 m diffuse with background suppression0.4 m diffuse30 m thru beam4.5 m polarised reflex
Output type	Solid state
Add on output	Without
Status LED	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Supply voltage limits	1036 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 250 Hz
Voltage drop	1.5 V (closed state)
Current consumption	35 mA (no-load)
Delay first up	< 200 ms
Delay response	< 2 ms
Delay recovery	< 2 ms
Setting-up	Self-teaching
Diameter	18 mm
Length	78 mm
Product weight	0.045 kg



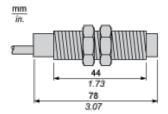
Environment

product certifications	CE CSA UL
ambient air temperature for operation	-2555 °C
ambient air temperature for storage	-4070 °C
vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 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 IP69K double insulation conforming to DIN 40050

Offer Sustainability

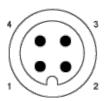
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0821 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Dimensions



Wiring Schemes

M12 Connector



1: (+)

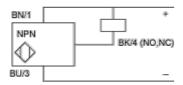
2: Beam break input (1)

3: (-)

4: OUT/Output

(1) Beam break input on thru-beam transmitter only

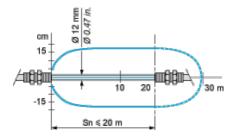
Receiver, NPN Output



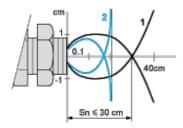
BN: Brown
BU: Blue
BK: Black

Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)

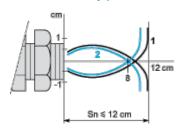


1: White 90%

2: Grey 18%

Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)

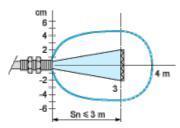


1: White 90%

2: Grey 18%

Object 10 x 10 cm

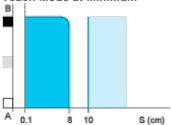
With reflector (Polarised reflex)



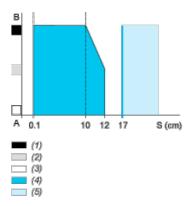
With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression)

Teach Mode at Minimum



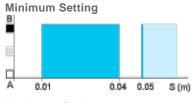
Teach Mode at Maximum

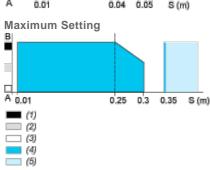


A-B: Object reflection coefficient

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

Variation of Usable Sensing Distance





A-B: Object reflection coefficient

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