

# Product data sheet Characteristics

# XUB0ANSNL2

photo-electric sensor - XUB - multi - Sn 0..20m - 12..24VDC - cable 2m





### Main

Range of product	Telemecanique Photoelectric sensors 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	Cable
Cable length	2 m
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	3 M polarised reflex need reflector XUZC50 20 M thru beam need a transmitter XUB0AKSNL2T 0.12 M diffuse with background suppression 0.3 m diffuse

#### Complementary

Complementary	
Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	0.12 M diffuse with background suppression 0.4 M diffuse 30 M thru beam 4.5 m polarised reflex
Output type	Solid state
Add on output	Without
Wire insulation material	PvR
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
Maximum voltage drop	<1.5 V (closed state)
Current consumption	35 mA no-load
Maximum delay first up	200 ms
Maximum delay response	2 ms

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.

This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Maximum delay recovery	2 ms
Setting-up	Self-teaching
Diameter	18 mm
Length	64 mm
Net weight	0.095 kg

### Environment

Product certifications	CSA[RETURN]UL[RETURN]CE
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

### Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.100 cm
Package 1 Width	9.500 cm
Package 1 Length	13.000 cm
Package 1 Weight	101.900 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.791 kg

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
RoHS exemption information	€Yes	

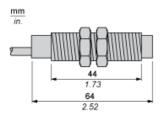
### Contractual warranty

Warranty 18 mg	onths
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# Product data sheet Dimensions Drawings

# XUB0ANSNL2

### **Dimensions**

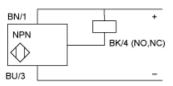


# Product data sheet Connections and Schema

# XUB0ANSNL2

### Connections and Schemes

### **NPN**

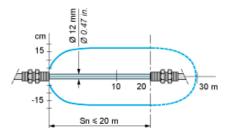


BN: Brown BU: Blue BK: Black

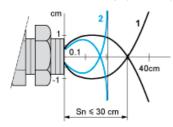
# XUB0ANSNL2

### **Detection Curves**

### With Thru-beam Accessory (Thru-beam)

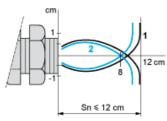


### Without Accessory (Diffuse)



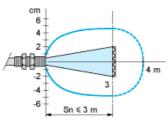
1: White 90% 2: Grey 18% Object 10 x 10 cm

### Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18% Object 10 x 10 cm

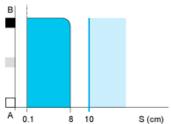
### With reflector (Polarised reflex)



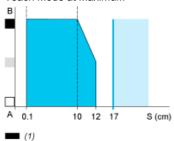
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum



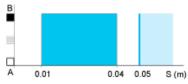
(2) (3) (4) (5)

A-B: Object reflection coefficient

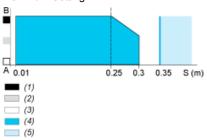
- Black 6% (1)
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

### 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
- Non sensing zone (matt surfaces)