# XUB0ANSNL5

photo-electric sensor - XUB - multi - Sn 0..20m - 12..24VDC - cable 5m



#### Main

IVIAIII	
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	5 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 XUB0AKSNL5T 0.12 M diffuse with background suppression

0.3 m diffuse

#### Complementary

PBT
PMMA
0.12 M diffuse with background suppression 0.4 M diffuse 30 M thru beam 4.5 m polarised reflex
Solid state
Without
PvR
1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state
1224 V DC with reverse polarity protection
1036 V DC
<= 100 mA (overload and short-circuit protection)
<= 250 Hz
<1.5 V (closed state)
35 mA no-load
200 ms
2 ms
2 ms
Self-teaching
18 mm
64 mm

#### **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

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	13 cm	
Package 1 Width	9.5 cm	
Package 1 Length	6.6 cm	
Package 1 Weight	190 g	

## Offer Sustainability

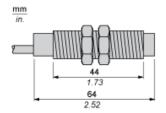
Sustainable offer status	Green Premium product
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

#### Contractual warranty

# Product data sheet Dimensions Drawings

# XUB0ANSNL5

#### **Dimensions**

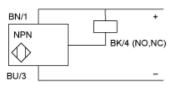


# Product data sheet Connections and Schema

# XUB0ANSNL5

#### **Connections and Schemes**

#### **NPN**

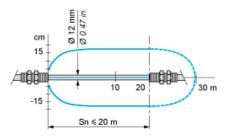


BN: Brown BU: Blue BK: Black

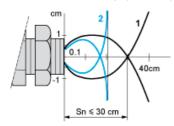
## XUB0ANSNL5

#### **Detection Curves**

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

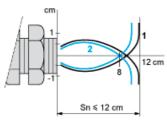


#### Without Accessory (Diffuse)



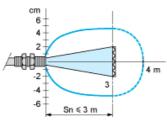
1: White 90% 2: Grey 18% Object 10 x 10 cm

#### Without Accessory (Diffuse with background suppression)



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

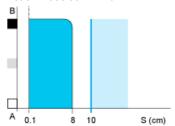
#### With reflector (Polarised reflex)



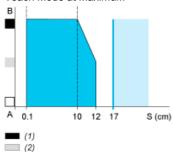
With reflector XUZC50

#### 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

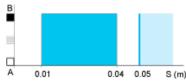
Black 6% (1)

(3) (4) (5)

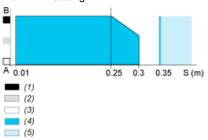
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

#### Variation of Usable Sensing Distance

Minimum Setting



Maximum Setting



A-B: Object reflection coefficient

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