Product data sheet
Characteristics

XUB0ANSNL2

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

Green Premium™

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

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	12...24 V DC with reverse polarity protection
Supply voltage limits	10…36 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

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	-25…55 °C
Ambient air temperature for storage	-40…70 °C
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

Packing Units

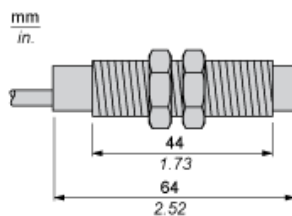|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.100 cm
Package 1 Width	9.500 cm
Package 1 Length	13.000 cm
Package 1 Weight	101.900 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000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

Offer Sustainability

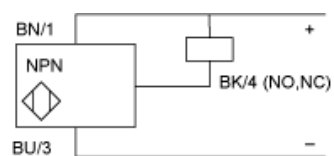|	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

Dimensions

mm
in.

44
1.73
64
2.52

XUB0ANSNL2

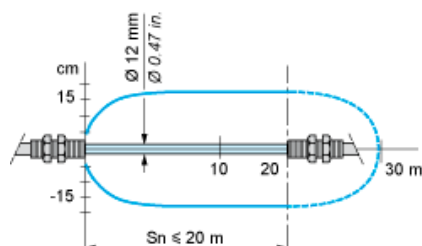
Connections and Schemes

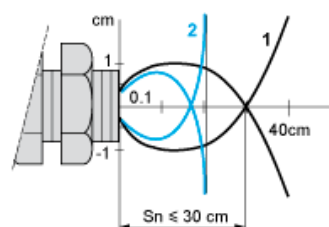### NPN

BN : Brown
BU : Blue
BK : Black

Detection Curves

With Thru-beam Accessory (Thru-beam)

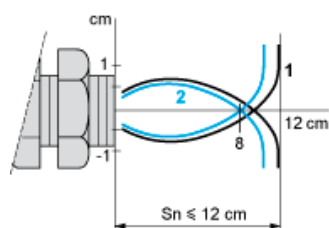### Without Accessory (Diffuse)

1 : White 90%
2 : Grey 18%

Object 10 x 10 cm

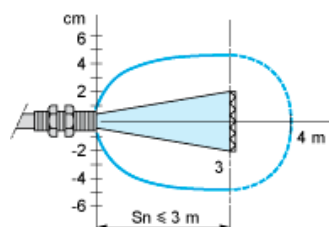### Without Accessory (Diffuse with background suppression)
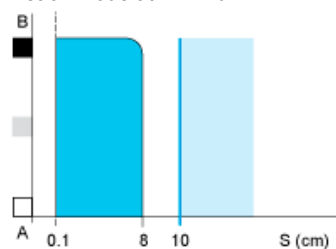

1 : White 90%
2 : Grey 18%

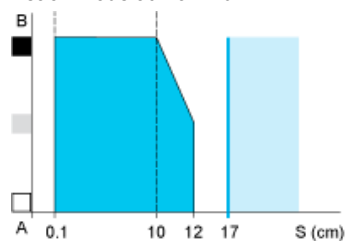Object 10 x 10 cm

With reflector (Polarised reflex)

With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression)
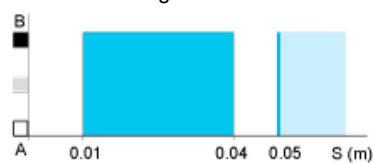
Teach Mode at Minimum

Teach Mode at Maximum

■ (1)
▨ (2)
▢ (3)
■ (4)
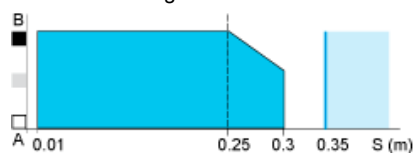▨ (5)

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

Minimum Setting

Maximum Setting

■ (1)
▨ (2)
▢ (3)
■ (4)
▨ (5)

A-B : Object reflection coefficient
(1)   Black 6%
(2)   Grey 18%
(3)   White 90%
(4)   Sensing range
(5)   Non sensing zone (matt surfaces)