

# Product data sheet

Specifications



photo-electric sensor - XUB - diffuse  
- 90° - Sn 0.1m - 12..24VDC - cable  
5m

XUB4BNAWL5

⚠ Discontinued

## Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Diffuse
Material	Metal
Line of sight type	90° lateral
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO
Electrical connection	Cable
Cable length	5 m
Product specific application	-
Emission	Infrared diffuse
[Sn] nominal sensing distance	0.1 m diffuse

## Complementary

Enclosure material	Nickel plated brass
Lens material	PMMA
Maximum sensing distance	0.15 m diffuse
Output type	Solid state
Add on output	Without
Wire insulation material	PvR
Status LED	1 LED (yellow) for output state
[Us] rated supply voltage	12...24 V DC with reverse polarity protection

<b>Supply voltage limits</b>	10...36 V DC
<b>Switching capacity in mA</b>	<= 100 mA (overload and short-circuit protection)
<b>Switching frequency</b>	<= 500 Hz
<b>Maximum voltage drop</b>	<1.5 V (closed state)
<b>Current consumption</b>	35 mA no-load
<b>Maximum delay first up</b>	15 ms
<b>Maximum delay response</b>	1 ms
<b>Maximum delay recovery</b>	1 ms
<b>Setting-up</b>	Without sensitivity adjustment
<b>Diameter</b>	18 mm
<b>Length</b>	46 mm

## Environment

<b>Product certifications</b>	CSA CE UL
<b>Ambient air temperature for operation</b>	-25...55 °C
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Vibration resistance</b>	7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
<b>IP degree of protection</b>	IP67 double insulation conforming to IEC 60529 IP65 double insulation conforming to IEC 60529

## Packing Units

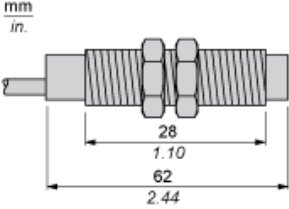
<b>Package 1 Weight</b>	0.223 kg
<b>Package 1 Height</b>	1.300 dm
<b>Package 1 width</b>	0.660 dm
<b>Package 1 Length</b>	0.950 dm

## Contractual warranty

<b>Warranty</b>	18 months
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**Dimensions**

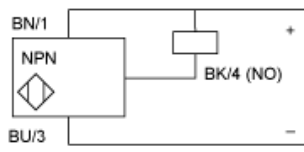
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**Wiring Schemes**

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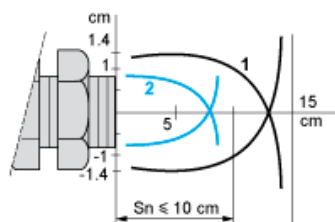
**NPN Outputs**



**BN :** Brown  
**BU :** Blue  
**BK :** Black

## Detection Curves

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1 : White 90%

2 : Grey 18%

Object 10 x 10 cm

## Recommended replacement(s)

XUB4BNAWL5 is replaced by the following group of products:

1x



Photoelectric sensors XU, XUB, diffuse, 90°, Sn 0.1 m, 12...24 VDC, M12  
XUB4BNAWM12

1x



Pre wired connectors XZ, elbowed female, M12, 4 pins, cable PUR 5 m  
XZCP1241L5