# XUB0BPSWM12

photo-electric sensor - XUB - multi - 90° - Sn 0..7m - 12..24VDC - M12



#### Main

OsiSense XU
General purpose multimode
Photo-electric sensor
XUB
Cylindrical M18
Multimode
Metal
90° lateral
Discrete
DC
3-wire
PNP
1 NO or 1 NC programmable
1 male connector M12, 4 pins
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Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
1.5 M polarised reflex need reflector XUZC50 7 M thru beam need a transmitter XUB0BKSWM12T 0.11 M diffuse with background suppression 0.2 m diffuse

#### Complementary

Complementary	
Enclosure material	Nickel plated brass
Lens material	РММА
Maximum sensing distance	2 M polarised reflex 0.11 M diffuse with background suppression 0.3 M diffuse 10 m thru beam
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
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	92 mm

#### **Environment**

Product certifications	UL
	CSA
	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
	IP69K double insulation conforming to DIN 40050

## Packing Units

Package 1 Weight	0.074 kg	
Package 1 Height	0.650 dm	
Package 1 width	0.950 dm	
Package 1 Length	0.420 dm	

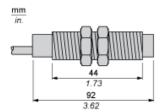
### Contractual warranty

Warranty 18 mont	ns
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# Product data sheet Dimensions Drawings

# XUB0BPSWM12

#### **Dimensions**

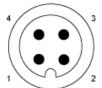


## Product data sheet Connections and Schema

# XUB0BPSWM12

#### Wiring Schemes

#### M12 Connector



1:

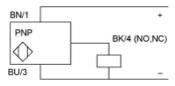
2: Beam break input (1)

3:

(-) OUT/Output

Beam break input on thru-beam transmitter only

#### Receiver, PNP Output

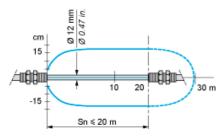


BN: Brown BU: Blue BK: Black

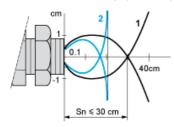
## XUB0BPSWM12

#### **Detection Curves**

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

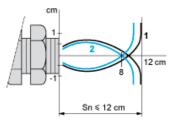


#### Without Accessory (Diffuse)



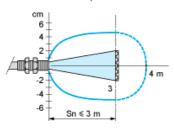
1: White 90% 2: Grey 18% Object 10 x 10 cm

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



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

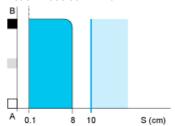
#### With reflector (Polarised reflex)



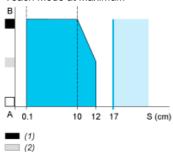
With reflector XUZC50

#### 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

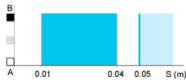
Black 6% (1)

(3) (4) (5)

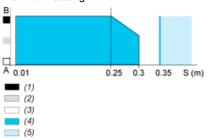
- Grey 18%
- (3) (4) White 90%
- Sensing range
- Non sensing zone (matt surfaces)

#### 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)