Product datasheet

Specifications



photo-electric sensor - XUB - receiver - laser - Sn 100m - 12..24VDC - M12

XUBLAPCNM12R

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor receiver
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Thru beam
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Red laser thru beam class 1 670 nm conforming to IEC 60825-1
[Sn] nominal sensing distance	0…100 m thru beam need a transmitter XUBLAKCNM12T

Complementary

Enclosure material	PBT
Lens material	PMMA
Output type	Solid state
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state 1 LED (red) for stability
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10…30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 1500 Hz
Maximum voltage drop	<1.5 V (closed state)
Current consumption	25 mA no-load

Disclaimer: 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

Maximum delay first up	80 ms
Maximum delay response	0.4 ms
Maximum delay recovery	0.4 ms
Diameter	18 mm
Length	76 mm
Net weight	0.04 kg

Environment

Product certifications	CE CSA UL
Ambient air temperature for operation	-10…45 °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	IP67 double insulation conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	42.0 g
Package 1 Height	3.6 cm
Package 1 width	7 cm
Package 1 Length	13 cm
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Weight	835.0 g
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

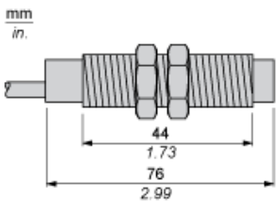
Contractual warranty

Warranty	18 months

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Dimensions Drawings

Dimensions

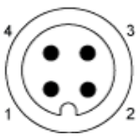


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Connections and Schema

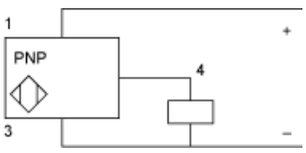
Wiring Schemes

M12 Connector



1 : (+)
2 : Beam break input
3 : (-)
4 : OUT/Output

PNP

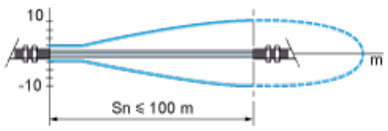


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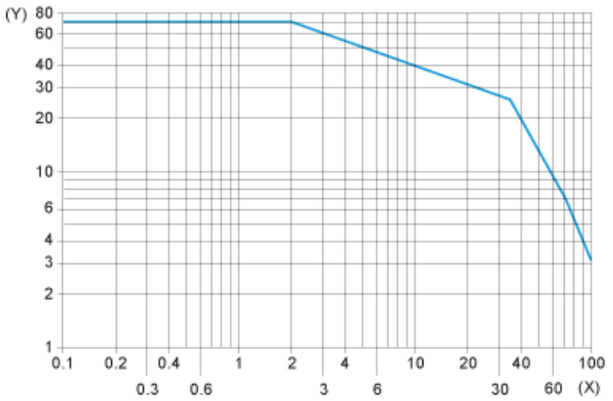
Performance Curves

Curves

Detection Curve (Set to Infinity)

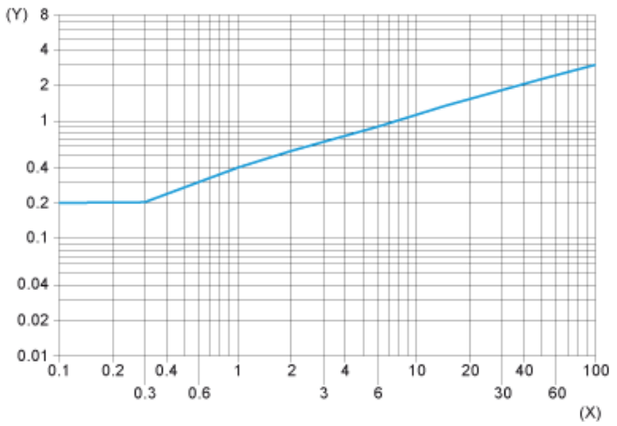


Excess Gain Curve



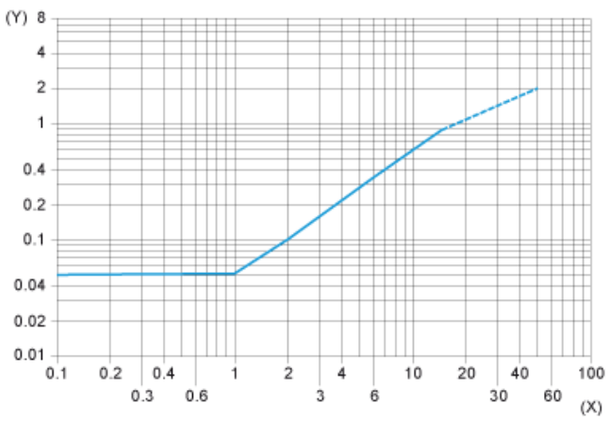
(X) Distance (m)
(Y) Gain

Standard Curve



(X) Distance focusing point (m)
(Y) Minimum size of the object to be detected (mm)

Detection Limit Curve



(X) Distance focusing point (m)
(Y) Minimum size of the object to be detected (mm)