

# XUK8LAPPNM12

photo-electric laser sensor -XUK -background suppression -Sn 0,8m -10..30VDC-M12



## Main

Range of product	OsiSense XU
Series name	Application assembly Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Diffuse with background suppression
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	4-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 diffuse with background suppression (class 1)
[Sn] nominal sensing distance	0.8 m diffuse with background suppression

## Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	0.8 m diffuse with background suppression
Output type	Solid state
Add on input	External teach
Status LED	1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state
[Us] rated supply voltage	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	<= 250 Hz
Voltage drop	<= 2 V
Current consumption	<= 30 mA (no-load)
Delay first up	< 300 ms
Delay response	< 0.5 ms
Delay recovery	< 0.5 ms
Setting-up	Using teach button or remote teaching
Depth	50 mm
Height	50 mm
Width	23 mm
Product weight	0.035 kg

## Environment

product certifications	CE CULus Ecolab
ambient air temperature for operation	-20...50 °C, UL certified -20...60 °C discrete output

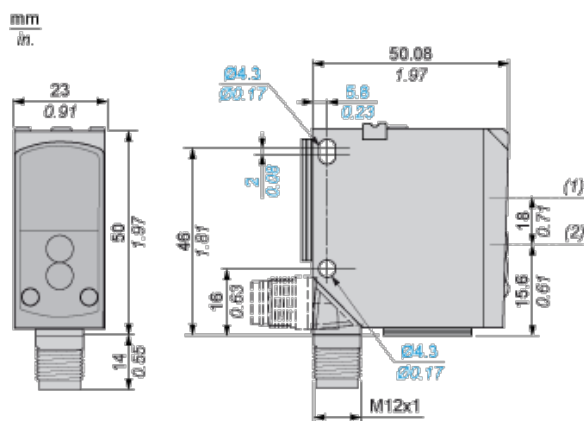
The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

ambient air temperature for storage	-20...80 °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 conforming to IEC 60529 IP69K conforming to DIN 40050

## Offer Sustainability

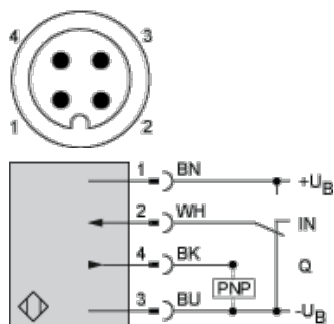
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Will not be Compliant

## Dimensions



- (1) Receiver optical axis
- (2) Transmitter optical axis

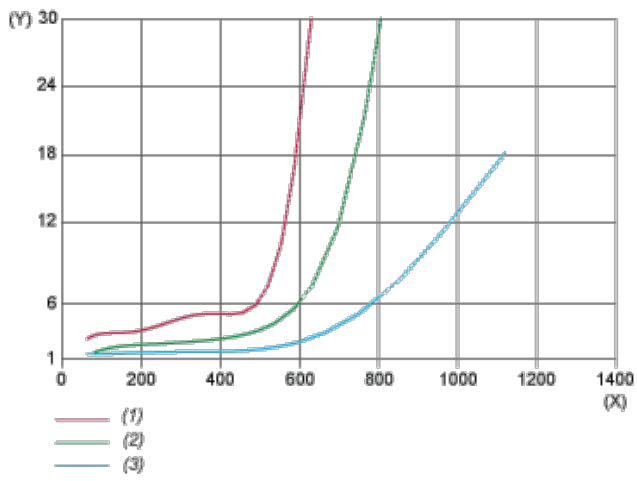
## Wiring Schemes Using M12 Connector



- 1 : (+)
- 2 : +UB = NC, -UB = NO, not connected = NO
- 3 : (-)
- 4 : Output
- BN : Brown
- WH : White
- BU : Blue
- BK : Black
- +UB : External teach
- UB : Pushbutton locking

## Curves

### Scanning Properties



(X) Detection distance (mm)

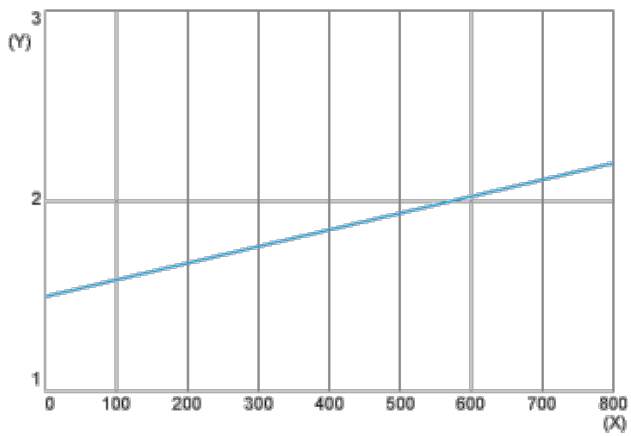
(Y) Distance (%)

(1) Black/white 6%/90%

(2) Grey/white 18%/90%

(3) White/white 90%/90%

### Size of Luminous Point



(X) Distance (mm)

(Y) Size (mm)