## XUM8ANXBL2

Photoelectric sensors XU, miniature, background suppression, Smax=0.30 m, NPN, cable 2 m



#### Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
Electronic sensor type	Photo-electric sensor
Sensor name	XUM
Sensor design	Miniature
Detection system	Diffuse with background suppression
Material	Plastic
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
Emission	Red LED diffuse with background suppression
[Sn] nominal sensing distance	0.20 m

#### Complementary

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Enclosure material	PBT
Lens material	РММА
Maximum sensing distance	0.30 m
Output type	Solid state
Wire insulation material	PVC
Status LED	Stability: 1 LED (green) Output state: 1 LED (orange)
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Supply voltage limits	1030 V DC
Switching capacity in mA	<= 100 mA with overload and short-circuit protection
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed state)
Current consumption	30 mA no-load
Maximum delay first up	100 ms
Maximum delay response	0.5 ms
Maximum delay recovery	0.5 ms
Setting-up	Sensitivity by potentiometer
Depth	20 mm
Height	33 mm
Width	10 mm
Net weight	0.063 kg

## **Environment**

Product certifications	CULus CE UKCA
Ambient air temperature for operation	-3055 °C
Ambient air temperature for storage	-4070 °C
Relative humidity	3595 %
Immunity to ambient light	40000 Lux sunlight 10000 lux incandescent light
Vibration resistance	9 gn, amplitude = +/- 1.5 mm (f = 10500 Hz)for every axis conforming to IEC 60068-2-6
Shock resistance	100 gn (duration = 11 ms) for for every axis conforming to IEC 60068-2-27
IP degree of protection	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529

## Packing Units

3	
Unit Type of Package 1	Db
Number of Units in Package 1	1
Package 1 Height	1.5 cm
Package 1 Width	10.0 cm
Package 1 Length	18.0 cm
Package 1 Weight	50.0 g
Unit Type of Package 2	S04
Number of Units in Package 2	160
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	9.885 kg

## Offer Sustainability

REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS  Declaration
Mercury free	Yes
China RoHS Regulation	☐ China RoHS declaration
RoHS exemption information	₽¥Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

## Contractual warranty

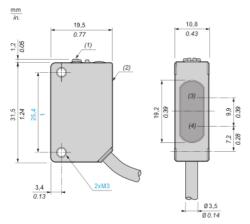
Warranty	19 months
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# Product data sheet Dimensions Drawings

# XUM8ANXBL2

## **Dimensions**



(1): Setting potentiometer (sensitivity)

(2): Setting potentiometer (output)

(3): Reception

(4): Transmission

## Product data sheet Connections and Schema

# XUM8ANXBL2

## Connection and schema

## Wiring diagram



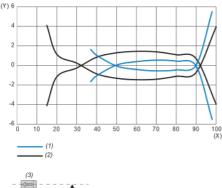
BN (Brown): (+)

BK (Black) : OUT/Output

BU (Blue) : (-)

#### **Detection curves**

## Lateral displacement (preset 100 mm)





(1): Black paper 6 % remission

(2): White paper 90 % remission

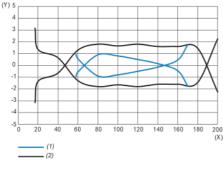
(3): Sensor

(4): Object (200 mm square white and black mat paper)

(X): Sensing distance (mm)

(Y): Lateral displacement (mm)

## Lateral displacement (preset 200 mm)





(1): Black paper 6 % remission

(2): White paper 90 % remission

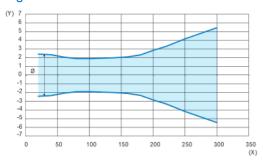
(3) : Sensor

(4): Object (200 mm square white and black mat paper)

(X): Sensing distance (mm)

(Y): Lateral displacement (mm)

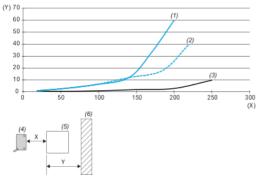
#### Light beam diameter



(X): Sensing distance (mm)

(Y): Light beam diameter (mm)

## Minimum distance between the object to detect and white background



(1): Min. distance black object (6%)/white background (90%) (mm)

(2): Min. distance grey object (18%)/white background (90%) (mm)

(3): Min. distance white object (90%)/white background (90%) (mm)

(4): Sensor

(5): Object

(6): Background

(X): Distance sensor/object (mm)

(Y): Min. distance object/background (mm)