Product data sheet
Characteristics

XUM2APXBL2

Photoelectric sensors XU, miniature, thru beam, Smax=30 m, system, PNP, 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	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	Cable
Cable length	2 m
Emission	Red LED thru beam
[Sn] nominal sensing distance	20 m

Complementary

Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	30 m
Output type	Solid state
Wire insulation material	PVC
Status LED	Supply on: 1 LED (green) Receiver/Output: 1 LED (orange) Receiver/supply on: 1 LED (green)
[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 with overload and short-circuit protection
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V
Current consumption	20 mA for transmitter 20 mA for receiver
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	0.119 kg
Kit composition	Transmitter + receiver XUM2AKXBL2T + XUM2APXBL2R

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Environment

Product certifications	CULus CE UKCA
Ambient air temperature for operation	-30…55 °C
Ambient air temperature for storage	-40…70 °C
Relative humidity	35…95 %
Immunity to ambient light	40000 Lux sunlight 10000 lux incandescent light
Vibration resistance	9 gn, amplitude = +/- 1.5 mm (f = 10…500 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

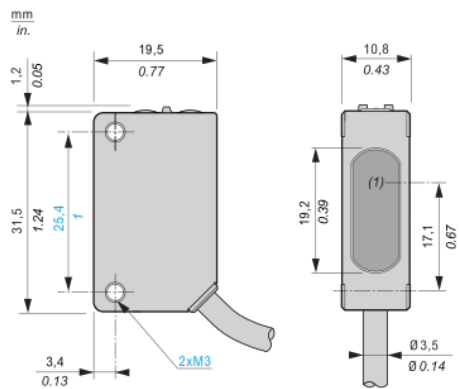|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3 cm
Package 1 Width	12.5 cm
Package 1 Length	15 cm
Package 1 Weight	93 g
Unit Type of Package 2	S04
Number of Units in Package 2	80
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	9.2 kg

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

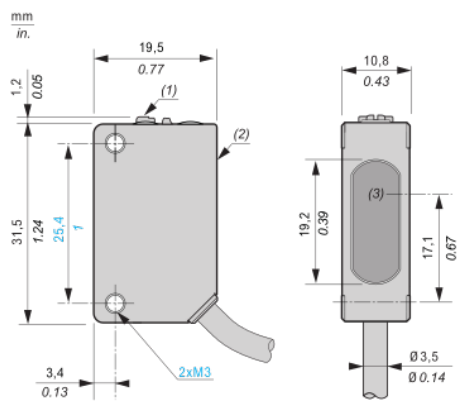|	
Warranty	18 months

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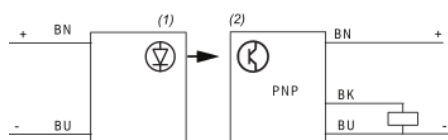## Dimensions

Transmitter

(1) : Transmission

Receiver

(1) : Setting potentiometer (sensitivity)

(2) : Setting potentiometer (output)

(3) : Reception

Connection and schema

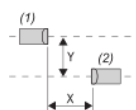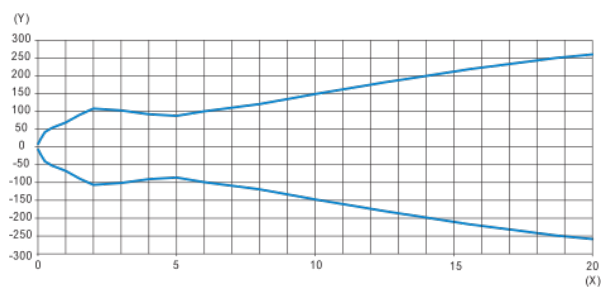### Wiring diagram

BN (Brown): (+)
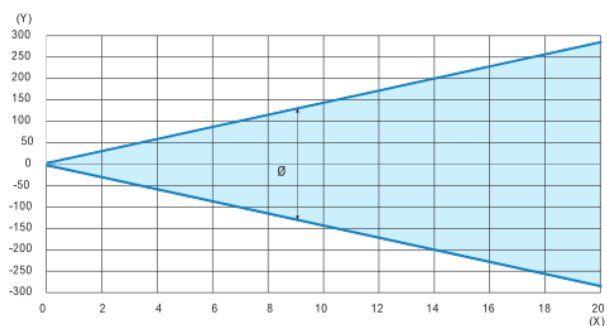BK (Black): OUT/Output
BU (Blue): (-)
(1): Transmitter
(2): Receiver

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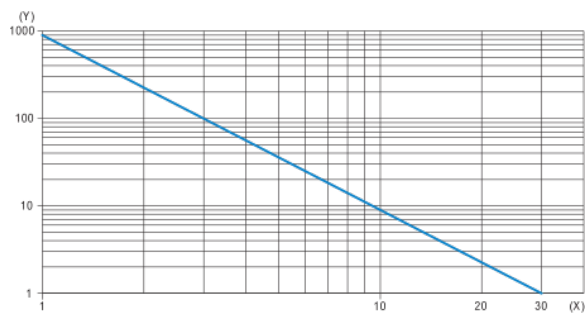Sensors

Detection curves

Lateral displacement

(1): Transmitter

(2): Receiver

(X): Sensing distance (m)

(Y): Lateral displacement (mm)

Light beam diameter

(X): Sensing distance (m)

(Y): Light beam diameter (mm)

Excess gain

(X): Sensing distance (m)

(Y): Excess gain