

XUM9ANXBL2

Photoelectric sensors XU, miniature, polarised,
Smax=8 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	Polarised reflex
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 polarised reflex
[Sn] nominal sensing distance	6.7 m with reflector 50 x 50 mm

Complementary

Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	8 m
Output type	Solid state
Wire insulation material	PVC
Status LED	Stability: 1 LED (green) Output state: 1 LED (orange)
[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 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
Product weight	0.063 kg

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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	1.5 cm
Package 1 Width	11.5 cm
Package 1 Length	13 cm
Package 1 Weight	51 g
Unit Type of Package 2	S04
Number of Units in Package 2	160
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	9.8 kg

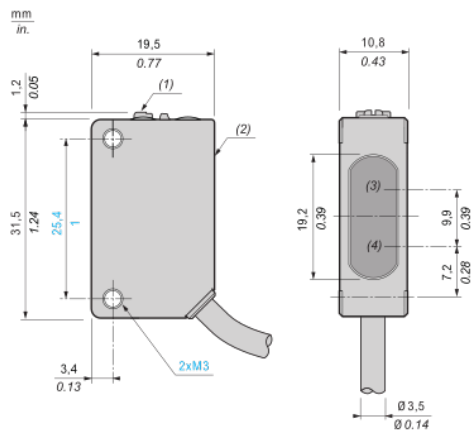
Offer Sustainability

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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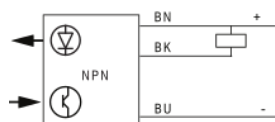
Dimensions



- (1) : Setting potentiometer (sensitivity)
- (2) : Setting potentiometer (output)
- (3) : Reception
- (4) : Transmission

Connection and schema

Wiring diagram



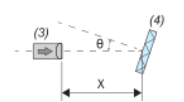
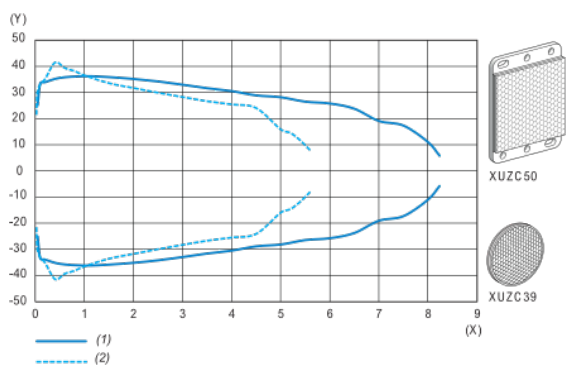
BN (Brown) : (+)

BK (Black) : OUT/Output

BU (Blue) : (-)

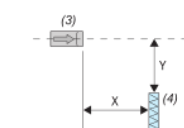
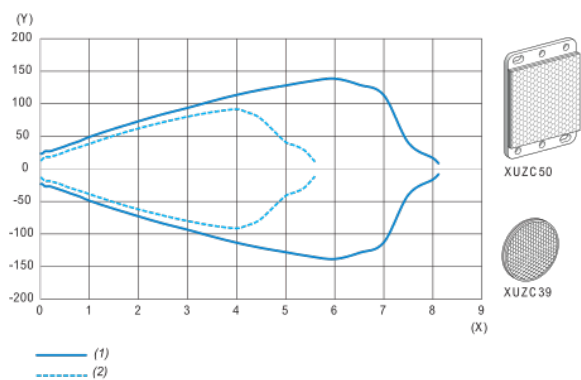
Detection curves

Reflector angle



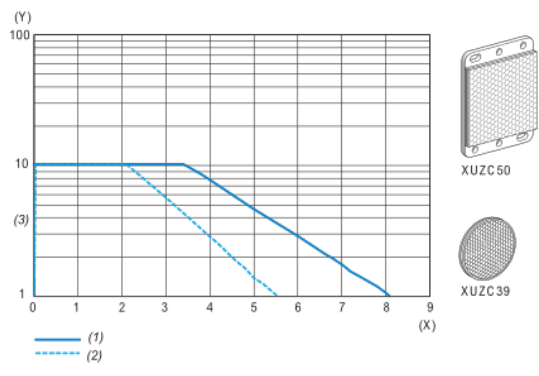
- (1) : Using XUZC50 reflector
- (2) : Using XUZC39 reflector
- (3) : Sensor
- (4) : Reflector
- (X) : Sensing distance (m)
- (Y) : Reflector angle θ ($^{\circ}$)

Lateral displacement



- (1) : Using XUZC50 reflector
- (2) : Using XUZC39 reflector
- (3) : Sensor
- (4) : Reflector
- (X) : Sensing distance (m)
- (Y) : Lateral displacement (mm)

Excess gain



(1) : Using XUZC50 reflector

(2) : Using XUZC39 reflector

(3) : Operation level

(X) : Sensing distance (m)

(Y) : Excess gain