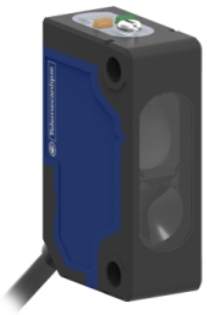
Product data sheet
Characteristics

XUM9APXBL2
Photoelectric sensors XU, miniature, polarised, Smax=8 m, 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	Polarised reflex
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	6.56 ft (2 m)
Emission	Red LED polarised reflex
[Sn] nominal sensing distance	21.98 ft (6.7 m) with reflector 50 x 50 mm

Complementary

Enclosure Material	PBT
Lens material	PMMA
Maximum sensing distance	26.25 ft (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 reverse polarity protection
Supply voltage limits	10…30 V DC
Switching capacity in mA	<= 100 mA 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	0.79 in (20 mm)
Height	1.30 in (33 mm)
Width	0.39 in (10 mm)
Net Weight	0.14 lb(US) (0.063 kg)

Environment

Product Certifications	CULus CE UKCA
Ambient Air Temperature for Operation	-22…131 °F (-30…55 °C)
Ambient Air Temperature for Storage	-40…158 °F (-40…70 °C)
Relative humidity	35…95 %
Immunity to ambient light	40000 Lux sunlight 10000 lux incandescent light
Vibration resistance	9 gn +/- 1.5 mm 10…500 Hz)for every axis IEC 60068-2-6
Shock resistance	100 gn 11 ms) for every axis IEC 60068-2-27
IP degree of protection	IP67 IEC 60529 IP65 IEC 60529

Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389110911275
Returnability	Yes
Country of origin	JP

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.59 in (1.500 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	9.65 in (24.500 cm)
Package 1 Weight	1.80 oz (51.000 g)
Unit Type of Package 2	S04
Number of Units in Package 2	160
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	15.75 in (40.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	21.38 lb(US) (9.700 kg)

Offer Sustainability

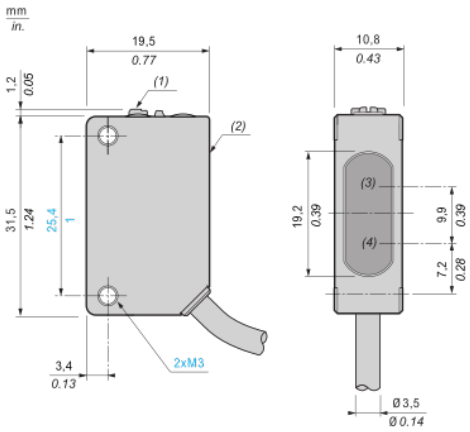
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
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

Contractual warranty

Warranty	18 months

XUM9APXBL2

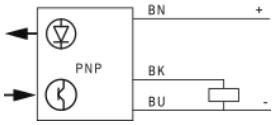
Dimensions



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

Connection and schema

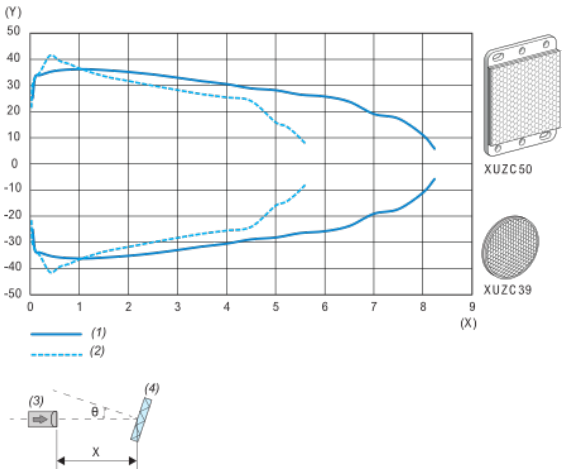
Wiring diagram



BN (Brown) : (+)
BK (Black) : OUT/Output
BU (Blue) : (-)

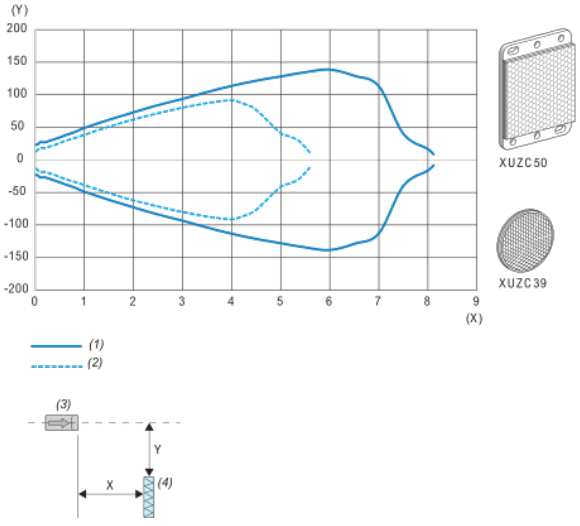
Detection curves

Reflector angle



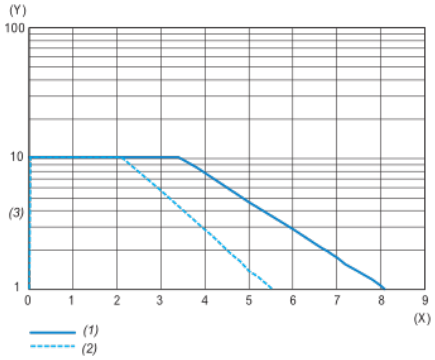
(1) : Using XUZC50 reflector
(2) : Using XUZC39 reflector
(3) : Sensor
(4) : Reflector
(X) : Sensing distance (m)
(Y) : Reflector angle θ (°)

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