

XUM9APXBM8

Photoelectric sensors XU, miniature, polarised,
Smax=8 m, PNP, connector M8



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	Male connector M8, 4 pins
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
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	1.73 in (44 mm)
Width	0.39 in (10 mm)
Net Weight	0.02 lb(US) (0.01 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

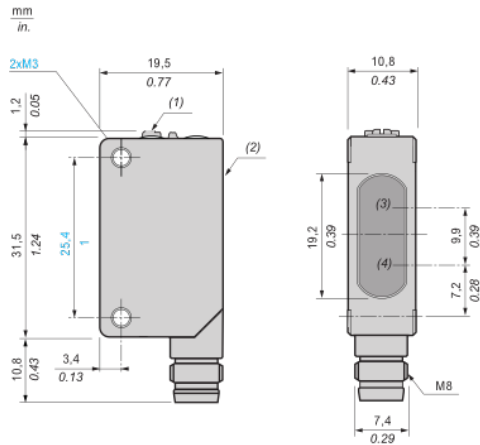
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.59 in (1.5 cm)
Package 1 Width	3.74 in (9.5 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	0.46 oz (13.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	120
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	4.52 lb(US) (2.05 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	1920
Package 3 Height	29.53 in (75 cm)
Package 3 Width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)
Package 3 Weight	89.95 lb(US) (40.8 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
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration

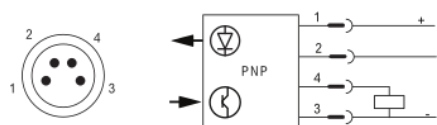
Dimensions



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

Connection and schema

Wiring diagram



1 : (+)

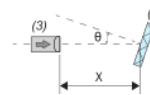
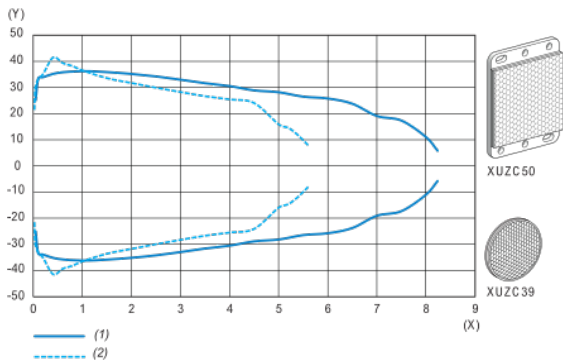
2 : Not connected

3 : (-)

4 : OUT/Output

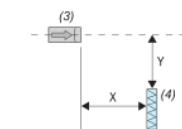
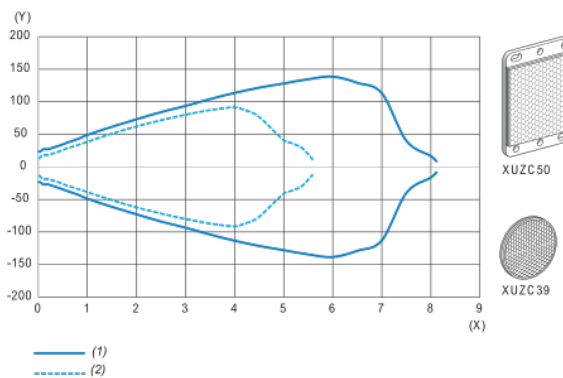
Detection curves

Reflector angle



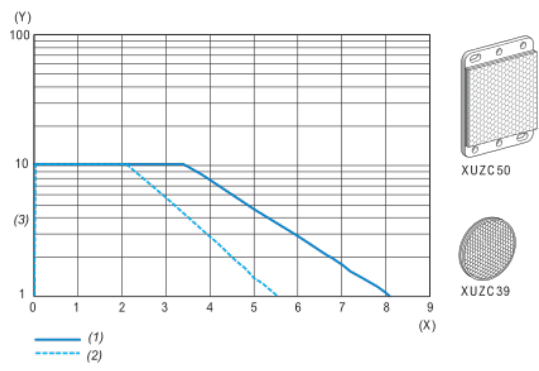
- (1) : Using XUZC50 reflector
- (2) : Using XUZC39 reflector
- (3) : Sensor
- (4) : Reflector
- (X) : Sensing distance (m)
- (Y) : Reflector angle θ (°)

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