

# XUM9APXBM8

Photoelectric sensors XU, photo electric sensor, 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	1 male connector M8, 4 pins
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
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	44 mm
Width	10 mm
Net weight	0.01 kg

## Environment

Product certifications	cULus[RETURN]CE[RETURN]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 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	9.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	13.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	120
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.05 kg
Unit Type of Package 3	P06
Number of Units in Package 3	1920
Package 3 Height	75 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	40.8 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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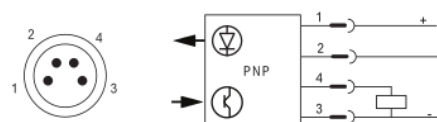


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## Connection and schema

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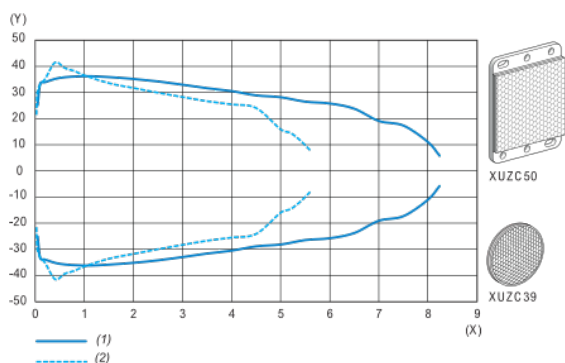
### Wiring diagram



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : OUT/Output

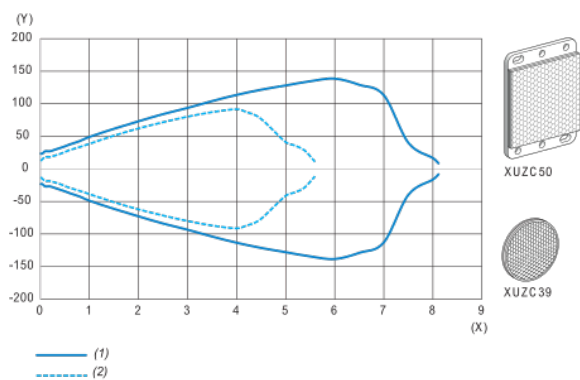
## Detection curves

### Reflector angle



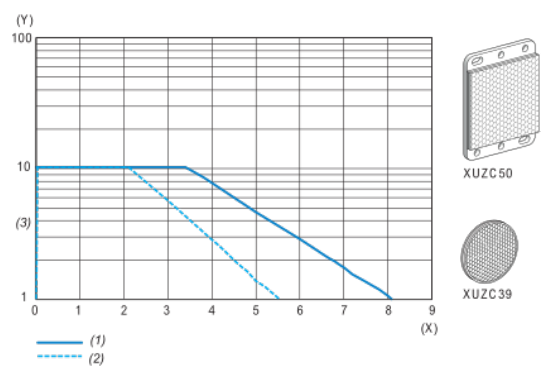
- (1) : Using XUZH50 reflector  
(2) : Using XUZH39 reflector  
(3) : Sensor  
(4) : Reflector  
(X) : Sensing distance (m)  
(Y) : Reflector angle  $\theta$  (°)

### Lateral displacement



- (1) : Using XUZH50 reflector  
(2) : Using XUZH39 reflector  
(3) : Sensor  
(4) : Reflector  
(X) : Sensing distance (m)  
(Y) : Lateral displacement (mm)

## Excess gain



(1) : Using XUZY50 reflector

(2) : Using XUZY39 reflector

(3) : Operation level

(X) : Sensing distance (m)

(Y) : Excess gain

