

# Product data sheet

Specifications



## Photoelectric sensors XU, XUR, diffuse, luminescence, Sn 9 mm, 12...24 VDC, M12

XURU1KSMM12

### Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application packaging
Electronic sensor type	Photo-electric sensor
Product specific application	Luminescence
Sensor name	XUR
Sensor design	Compact
Detection system	Diffuse
[Sn] nominal sensing distance	0.28 in (7 mm) Ø 2.5 mm need lens XURZ01 0.35 in (9 mm) Ø 5 mm without lens 0.71 in (18 mm) Ø 7 mm need lens XURZ02
Material	Metal
Type of output signal	Analogue Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Analogue output range	0...7 V, DC
Electrical connection	1 male connector M12 adjustable 3 positions, 4 pins
Emission	Ultra-violet (transmission frequency = 370 nm)

### Complementary

Enclosure material	Zinc alloy
Lens material	Glass
Output type	Solid state
Output function governance	Light or dark programmable
Add on output	With analogue output
Status LED	Teach mode 1 LED green) Output state 1 LED red)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Supply voltage limits	10...30 V DC

Switching capacity in mA	<= 200 mA reverse polarity, overload and short-circuit protection)
Switching frequency	<= 2000 Hz
Maximum voltage drop	<1 V closed state), NPN <2 V closed state), PNP
Current consumption	<= 20 mA no-load
Time delay range	20 ms off-delay activation/deactivation by internal switch
Maximum delay first up	100 ms
Maximum delay response	0.25 ms
Maximum delay recovery	0.25 ms
Setting-up	Sensitivity adjustment with teach mode
Depth	2.28 in (58 mm)
Height	3.23 in (82 mm)
Width	1.22 in (31 mm)
Net weight	1.21 lb(US) (0.55 kg)

## Environment

Product certifications	CE
Ambient air temperature for operation	14...131 °F (-10...55 °C)
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Vibration resistance	7 gn +/- 0.6 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP67 IEC 60529

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	3.86 in (9.8 cm)
Package 1 Length	6.30 in (16.0 cm)
Package 1 Weight	12.42 oz (352.0 g)

## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>

## Contractual warranty

Warranty	18 months
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## Recommended replacement(s)