

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	7 mm spot Ø 2.5 mm need lens XURZ01 9 mm spot Ø 5 mm without lens 18 mm spot 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 with 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 delay
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	58 mm
Height	82 mm
Width	31 mm
Net weight	0.55 kg

Environment

Product certifications	CE
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	7 gn, amplitude = +/- 0.6 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP67 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	352 g
Package 1 Height	5.5 cm
Package 1 width	9.8 cm
Package 1 Length	16 cm

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
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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