## XURK1KSMM12

Photoelectric sensors XU, diffuse, Sn 9 mm, NO or NC, M12 connector



#### Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application packaging
Electronic sensor type	Photo-electric sensor
Sensor name	XUR
Sensor design	Compact
Detection system	Diffuse
Emission	Red or green
[Sn] nominal sensing distance	18 Mm spot 2 x 7 mm need lens XURZ01 7 Mm spot 1 x 4 mm need lens XURZ02 9 mm spot 1.5 x 5 mm without lens
Material	Metal
Switching frequency	<= 10 kHz
Type of output signal	Discrete Analogue
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	05.5 V, DC
Electrical connection	1 male connector M12 adjustable 3 positions, 4 pins
Product specific application	Colour mark
Sale per indivisible quantity	1

#### Complementary

Complementary			
Enclosure material	Zinc alloy		
Lens material	Glass		
Minimum width of mark detected	0.5 mm		
Maximum inclination of reader	20 °		
Maximum passing speed of object	10 m/s, minimum detected mark width: 1 mm		
Output type	Solid state		
Output function governance	Light or dark programmable		
Add on output	With analogue output		
Status LED	Output state: 1 LED (red)		
[Us] rated supply voltage	1224 V DC with reverse polarity protection		
Supply voltage limits	DC		
Switching capacity in mA	<= 200 mA (overload and short-circuit protection)		
Maximum voltage drop	<1 V (closed state), NPN <2 V (closed state), PNP		
Current consumption	<= 80 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	0.05 ms		
Maximum delay recovery	0.05 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	-1055 °C			
Ambient air temperature for storage	-2070 °C			
Vibration resistance	7 gn, amplitude = +/- 0.6 mm (f = 1055 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 Height	5.0 cm			
Package 1 Width	8.5 cm			
Package 1 Length	13.5 cm			
Package 1 Weight	328.0 g			
Unit Type of Package 2	S02			
Number of Units in Package 2	21			
Package 2 Height	15.0 cm			
Package 2 Width	30.0 cm			
Package 2 Length	40.0 cm			
Package 2 Weight	7.37 kg			
Offer Sustainability				
Toxic heavy metal free	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			
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com			
Contractual warranty				



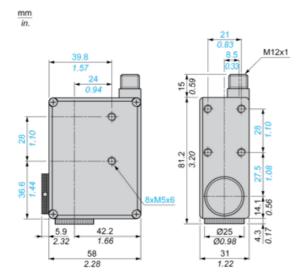
18 months

Warranty

# Product data sheet Dimensions Drawings

# XURK1KSMM12

#### **Dimensions**

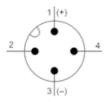


## Product data sheet Connections and Schema

# XURK1KSMM12

## Wiring Schemes

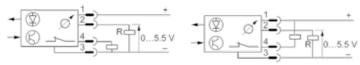
#### **Connector Scheme**



1/Brown: 10...30 VDC 2/White: Adjustment input

3/Blue: 0 V 4/Black: Output

## PNP or NPN Programmable

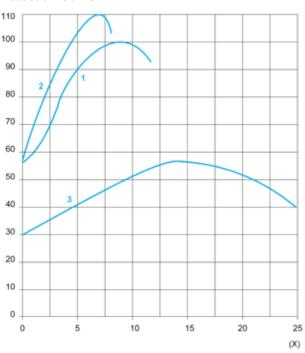


 $R = 2.2 \text{ k}\Omega$ 

# XURK1KSMM12

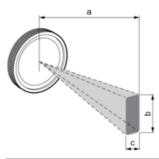
#### Curves

#### **Detection Curve**



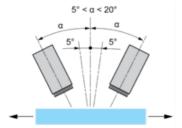
- (x) Distance (mm)
- 1:XURK••••••
- 2: With XURZ01
- 3: With XURZ02

## Detection Zone and Spot Size (mm)



	а	b	С
	9	9	1.5
With XURZ01	18	7	2
With XURZ02	7	4	1

#### **Vertical Inclination**



An angle of 5 to 10° from vertical is recommended for reflective or transparent surfaces Maximum vertical inclination: 20°