XU5M18U1D

photo-electric sensor - XU5 - diffuse - luminescence - Sn 80mm - 12..24VDC - M12

Main

Range of product	OsiSense XU
Series name	Application packaging
Electronic sensor type	Photo-electric sensor
Product specific application	Luminescence
Sensor name	XU5
Sensor design	M18
Detection system	Diffuse
[Sn] nominal sensing distance	20 mm spot Ø 3 x 1 mm for colour mark reading 0...80 mm in diffuse mode
Material	Metal
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO
Electrical connection	1 male connector M12, 4 pins
Emission	Ultra-violet (transmission frequency = 370 nm)

Complementary

Enclosure material	Nickel plated brass
Lens material	PMMA
Output type	Solid state
Output function governance	Light
Add on output	Without
Status LED	1 LED (green) for output state
[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 (reverse polarity, overload and short-circuit protection)
Switching frequency	<= 1000 Hz
Voltage drop	<= 1.5 V (closed state), PNP
Current consumption	<= 20 mA (no-load)

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Time delay range	20 ms off-delay activation/deactivation by cabling method delay
Delay first up	<= 100 ms
Delay response	<= 0.5 ms
Delay recovery	<= 0.5 ms
Setting-up	Sensitivity adjustment with potentiometer
Diameter	18 mm
Length	95 mm
Product weight	0.075 kg

Environment

|	
Product certifications	CSA CE UL
Ambient air temperature for operation	-25...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

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1149 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

Contractual warranty

Warranty period	18 months

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Dimensions
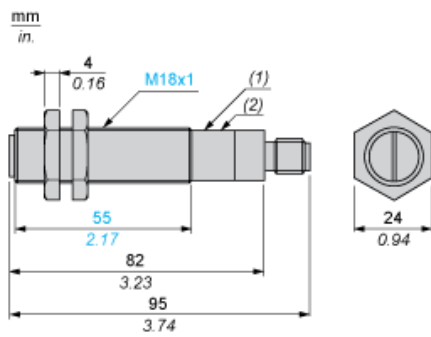
(1)   Potentiometer
(2)   Green LED

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Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

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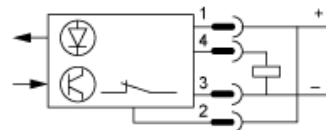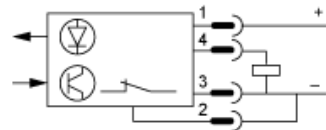
Wiring Schemes

Connector Scheme
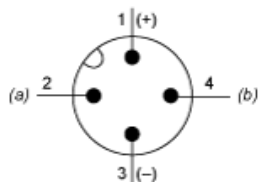
(a)   Time delay: "OFF delay" of output signal: - no time delay: connect contact 2 to (+), - 20 ms time delay: connect contact 2 to (-)
(b)   Output

PNP Output (3-wire Discontinue Current)

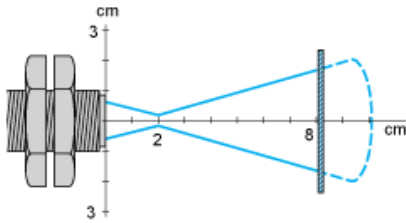Without output signal time delay

With output signal time delay (20 ms)

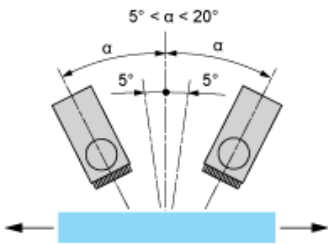# XU5M18U1D

Curves

Detection Curves

Object 5 x 5 cm, white 90 %
Object 5 x 5 cm, white 90 %

Vertical Inclination

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

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