References, characteristics

Photo-electric sensors

OsiSense XU Application, packaging series Luminescence sensor (1) DC supply. Solid-state output

Design 18



System		Diffuse
Type of transmission		Ultraviolet (370 nm)
Nominal sensing distance (Sn)		20 mm for colour mark reading, 080 mm in diffuse mode
Sensitivity adjustment		By potentiometer
References		
3-wire, PNP	NO function (2)	XU5M18U1D
Weight (kg)		0.075
Characteristics		
Product certifications		CE, CSA, UL
Ambient air temperature	For operation	- 25+ 55 °C
	For storage	- 40+ 70 °C
Vibration resistance	Conforming to IEC 60068-2-6	7 gn, amplitude ± 0.6 mm (f = 1055 Hz)
Shock resistance	Conforming to IEC 60068-2-27	30 gn, duration 11 ms
Degree of protection	Conforming to IEC 60529	IP 67
Connection		M12 connector (suitable female connectors, including pre-wired versions, see page 5/28)
Materials	Case	Nickel plated brass
	Lenses	PMMA
Spot diameter		At 20 mm: Ø 3 x 1 mm
Auxiliary functions		External synchronisation, locking
Indicator lights	Output state	Green LED
	Teach mode	-
Rated supply voltage		
Voltage limits		== 1030 V (including ripple)
Switching capacity (sealed)		≤ 100 mA with protection against reverse polarity, overload and short-circuit
Voltage drop, closed state		≤ 1.5 V (PNP)
Current consumption, no-load		≤20 mA
Maximum switching frequency		1 kHz
Delays	First-up	≤ 100 ms
	Response	≤500 μs
	Recovery	≤500 μs
Time delay		"OFF delay": 20 ms, activated/deactivated by cabling method

(1) Applications: detection of invisible reference marks, markings, glues or varnishes containing bluing agents.
(2) Output activated when a blued mark on a non blued background is present.

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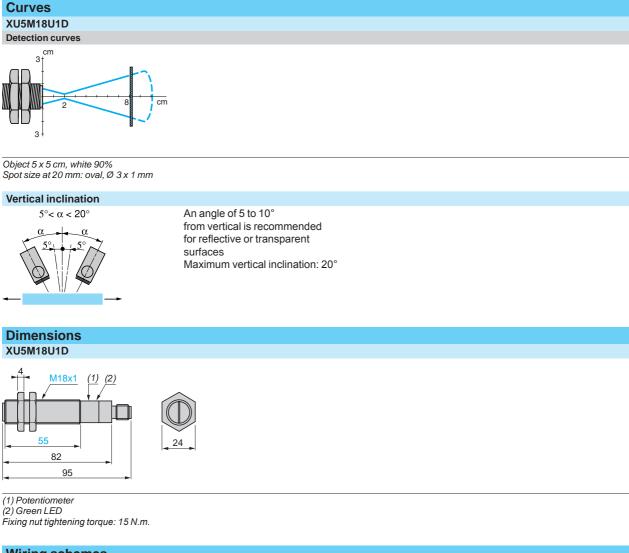
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5

Curves, dimensions, schemes

Photo-electric sensors

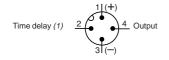
OsiSense XU Application, packaging series Luminescence sensor (1) DC supply. Solid-state output



Wiring schemes XU5M18U1D

Connector scheme

(Sensor connector pin view)



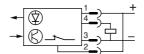
(1) "OFF delay" of output signal:

- no time delay: connect contact 2 to (+)

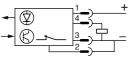
- 20 ms time delay: connect contact 2 to (-)

Wiring schemes (3-wire ----)

PNP output Without output signal time delay



With output signal time delay (20 ms)



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