

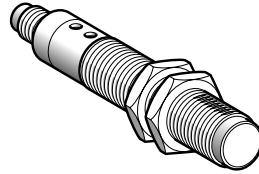
# Photo-electric sensors

OsiSense XU Application, packaging series

Luminescence sensor <sup>(1)</sup>

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, 0...80 mm in diffuse mode
Sensitivity adjustment		By potentiometer
<b>References</b>		
3-wire, PNP	NO function (2)	XU5M18U1D
Weight (kg)		0.075
<b>Characteristics</b>		
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 = 10...55 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)
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		--- 12...24 V with protection against reverse polarity
Voltage limits		--- 10...30 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.