

Photo-electric sensors

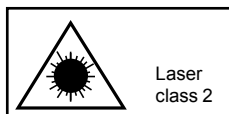
OsiSense XU Application, material handling series

Diffuse, with laser transmission

With background suppression

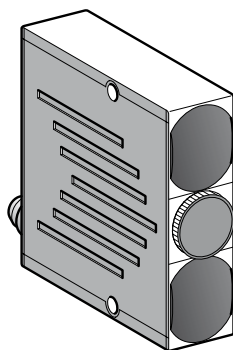
DC supply. Solid-state output

Compact design



Laser class 2, conforming to IEC 60825-1

Visible laser radiation: do not stare into beam.



System	Diffuse with background suppression	
Type of transmission	Red laser, pulsed, Class 2, wavelength: 675 nm	
Detection distance	Adjustable from 50 to 300 mm	
Minimum size of object	0.5 mm	
References		
4-wire, PNP and NPN output	NO/NC depending on wiring	XUYPS1LCO965S
Weight (kg)	0.081	
Characteristics		
Product certifications	CE, cULus (1)	
Ambient air temperature	For operation	0...+ 50 °C
	For storage	- 20...+ 80 °C
Degree of protection	Conforming to IEC 60529	IP 65
Connection	M8, 4-pin male connector (for pre-cabled version please consult our Customer Care Centre)	
Materials	Case	Glass impregnated nylon
	Lens	PMMA
Rated supply voltage	--- 12...24 V with protection against reverse polarity	
Voltage limits (including ripple)	--- 10...30 V	
Immunity to ambient light	Incandescent bulb	500 lux
	Natural light	10 000 lux
Laser transmission	Pulsed laser LED	T pulse: 6 µs, T period < 50 µs
Spot size	Manual adjustment of focusing	
Switching capacity	100 mA with overload and short-circuit protection	
Voltage drop, closed state	< 2 V	
Current consumption, no-load	35 mA	
Maximum switching frequency	5 kHz	
Delays	Response and recovery	< 150 µs
Indicator lights	Time delay active	Red indicator
	Output state	Green indicator
	NO function	Red indicator
	NC function	Indicator off
Output signal time delay	40 ms, depending on wiring	

(1) This product is UL Listed if supplied by a class II or isolated supply delivering --- 30 V max. (isolated transformer for example) and protected by a UL fuse rated at 3 A max.

Applications: monitoring of small parts on production machine, detection of components on a printed circuit, monitoring for crack on a component, control of level, suppression of a background.

Accessories

Description	Details	Length of cable	References	Weight
		m		kg
Pre-wired M8 connector	Straight	2	XZCP0941L2	0.080
	Elbowed (90°)	2	XZCP1041L2	0.080
	Straight	5	XZCP0941L5	0.180
	Elbowed (90°)	5	XZCP1041L5	0.180