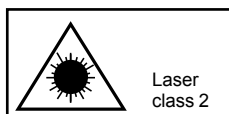


Photo-electric sensors

OsiSense XU Application, material handling series

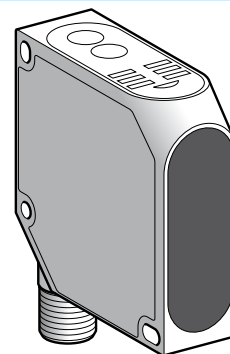
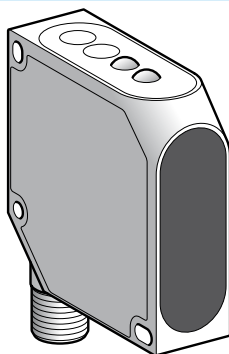
With analogue output signal 0...10 V or 4...20 mA
Laser transmission

Compact design, 50 x 50



Laser class 2, conforming to IEC 825-1

Visible laser radiation: do not stare into beam.



System		Diffuse		
Type of transmission		Red laser, pulsed, Class 2, wavelength: 670 nm		
Measuring distance		40...60 mm	45...85 mm	80...300 mm
References				
3-wire, PNP output		XUYPC0925L1ANSP	XUYPC0925L2ANSP	XUYPC0925L3ANSP
Weight (kg)		0.057	0.057	0.057
Characteristics				
Product certifications		CE		
Ambient air temperature	For operation	0...+45 °C		
	For storage	-20...+60 °C		
Degree of protection	Conforming to IEC 60529	IP 67		
Resolution		7 µm	20 µm	200 µm
Linearity		< 1%		
Temperature stability		10 µm/K	18 µm/K	22 µm/K
Connection		M12 male connector with alternative orientations		
Vibration resistance	Conforming to IEC 60068-2-6	7 gn, amplitude ± 1.5 mm (f = 10 to 55 Hz)		
Shock resistance	Conforming to IEC 60068-2-27	30 gn, duration 11 ms		
Materials	Case	ABS, anti-shock		
Rated supply voltage		⎓ 24 V with protection against reverse polarity		
Voltage limits (including ripple)		⎓ 18...28 V		
Immunity to ambient light		5000 lux		
Output signal		0...10 V		4...20 mA
Output activation time (from 10...90%)		30 ms		0.4 ms (fast speed mode)
				40 ms (medium speed mode)
Laser transmission		T pulse: 8 µs, pulse frequency: 6 kHz, time base: 250 ms		
Spot diameter		< 1 mm	< 0.8 mm	1.5 x 3.5 mm
		at 50 mm	at 65 mm	at 80 mm
Switching capacity		3 mA with overload and short-circuit protection		
Voltage drop, closed state		< 2.4 V		
Current consumption, no-load		35 mA		≤ 40 mA on ⎓ 24 V
Maximum switching frequency		40 Hz		
Indicator lights		Dirty		
		Supply on		
Parametering		-		By buttons

■ Applications: position control of robot arm, measuring thickness of mechanical parts.

Accessories

Description	Details	Length of cable m	References	Weight kg
Pre-wired M12 connector	Straight, 4-pin	2	XZCP1141L2	0.090
		5	XZCP1141L5	0.190
	Straight, 5-pin	2	XZCP1164L2	0.115
		5	XZCP1164L5	0.270
Fixing bracket (1)	Stainless steel 316	-	XUZA51S	0.050

(1) For further information, see page 168.