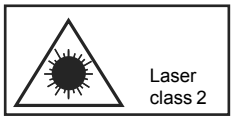
Photo-electric sensors

OsiSense XU Application, material handling series

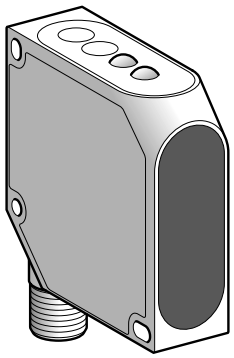
With analogue output signal 0...10 V or 4…20 mA
Laser transmission

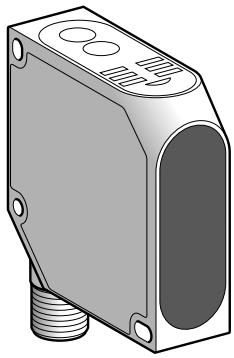
Compact design, 50 x 50



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		**XUY PCO925L1ANSP**	**XUY PCO925L2ANSP**	**XUY PCO925L3ANSP**
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%		< 0.25%
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 at 50 mm	< 0.8 mm at 65 mm	1.5 x 3.5 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	Red LED		
	Supply on	Green LED		
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	**XZC P1141L2**	0.090
		5	**XZC P1141L5**	0.190
	Straight, 5-pin	2	**XZC P1164L2**	0.115
		5	**XZC P1164L2**	0.270
Fixing bracket			**XUY 925**	0.033
Protection bracket	Vertical rear fixing		**XUY 9251**	–