

# Photo-electric sensors

OsiSense XU Application

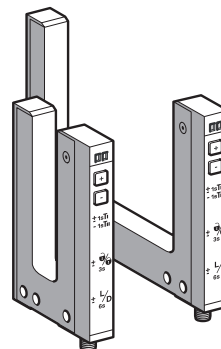
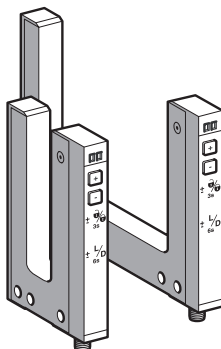
Optical fork with teach mode

DC supply. Solid-state output

Optical fork with teach mode

+/- numeric potentiometer mode  
Green keypad

Teach mode  
Yellow keypad



<b>System</b>	<b>Thru-beam</b>
<b>Type of transmission</b>	Infrared LED, modulated
<b>Nominal sensing distance (Sn)</b>	2...120 mm
<b>Minimum size of object detected</b> Passageway 2...120 mm	0.2 mm
<b>Fork type</b>	XUYFNEP● XUYFANEP●

## References

4-wire, PNP/NPN independent outputs	NO/NC function, selectable	Passageway (A)	Depth (B)			Depth (B)		
		mm	42	59	95	42	59	95
<p>A = Passageway B = Depth</p>		2	XUY FNEP40002	XUY FNEP60002	XUY FNEP100002	XUY FANEP40002	XUY FANEP60002	XUY FANEP100002
		5	XUY FNEP40005	XUY FNEP60005	XUY FNEP100005	XUY FANEP40005	XUY FANEP60005	XUY FANEP100005
		15	XUY FNEP40015	XUY FNEP60015	XUY FNEP100015	XUY FANEP40015	XUY FANEP60015	XUY FANEP100015
		30	XUY FNEP40030	XUY FNEP60030	XUY FNEP100030	XUY FANEP40030	XUY FANEP60030	XUY FANEP100030
		50	XUY FNEP40050	XUY FNEP60050	XUY FNEP100050	XUY FANEP40050	XUY FANEP60050	XUY FANEP100050
		80	XUY FNEP40080	XUY FNEP60080	XUY FNEP100080	XUY FANEP40080	XUY FANEP60080	XUY FANEP100080
	120	XUY FNEP40120	XUY FNEP60120	XUY FNEP100120	XUY FANEP40120	XUY FANEP60120	XUY FANEP100120	

Weight (kg)

0.055 to 0.128 depending on model

## Characteristics

<b>Product certifications</b>		CE, cULus. This product is UL Listed if supplied by a class II or isolated supply delivering c 30 V max. (isolated transformer for example) and protected by a UL fuse rated at 3 A max.
<b>Ambient air temperature</b>	For operation	- 20...+ 60 °C
	For storage	- 30...+ 80 °C
<b>Degree of protection</b>	Conforming to IEC 60529	IP 65
<b>Connection</b>		M8, 4-pin male connector (for 3-pin version please consult our Customer Care Centre)
<b>Vibration resistance</b>	Conforming to IEC 60068-2-6	7 gn, amplitude ± 0.75 mm (f = 10 to 55 Hz)
<b>Shock resistance</b>	Conforming to IEC 60068-2-27	30 gn, duration 11 ms
<b>Materials</b>	Case	Painted aluminium and polyamide/glass
<b>Rated supply voltage</b>		12...24 V with protection against reverse polarity
<b>Voltage limits (including ripple)</b>		10...30 V
<b>Immunity to ambient light</b>	Natural light	10 000 lux
	Incandescent bulb	5000 lux
<b>Outputs</b>	PNP and NPN	By independent wire
	NO/NC	By programming
<b>Switching capacity</b>		100 mA with overload and short-circuit protection
<b>Voltage drop, closed state</b>		< 2 V
<b>Current consumption, no-load</b>		40 mA
<b>Permissible capacitive load</b>		330 nF
<b>Maximum switching frequency</b>		10 kHz
<b>Response time</b>	Stability	+/- 20 µs
<b>Indicator lights</b>	Yellow LED	Output signal
	Red LED	Adjustment mode and keypad locking

Application: Detection of labels, detection of double sheet, detection of reference marks, detection on conveyor, detection on vibrating rail.

## Accessories

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