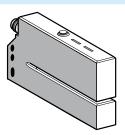
References, characteristics

Photo-electric sensors

OsiSense XU Application, packaging series Optical fork with teach mode For detection of labels DC supply. Solid-state output

Fork design



System		Thru-beam		
Type of transmission		Infrared, continuous		
Nominal sensing distance (Sn)	(Passageway)	3 mm	5 mm	
References				
4-wire, PNP and NPN	NO or NC programmable function (1) Automatic adjustment using teach mode	XUYFA983003COS	XUYFA983005COS	
Weight (kg)		0.07	0.07	
Characteristics				
Product certifications		(€, cULus		
Ambient air temperature	For operation	-20+60 °C		
	For storage	-30+80 °C		
Degree of protection	Conforming to IEC 60529	IP 65		
Connection		M8, 4-pin connector (for pre-cabled version please consult our Customer Care Centre)		
Materials		Anodised aluminium		
Rated supply voltage		1224 V with protection against reverse polarity		
Voltage limits (including ripple)		1030 V		
Switching capacity (sealed)		≤ 100 mA with overload and short-circuit protection		
Immunity to ambient light	Natural light	3000 lux		
	Incandescent bulb	3000 lux		
Voltage drop, closed state		<2 V		
Current consumption, no-load		40 mA		
Maximum switching frequency		10 kHz		
Delays		Response: 50 μs; recovery: 50 μs		
Indicator lights		Green LED: no object present Red LED: keypad locking and adjustments.		

Function table	Function	Thru-beam system No label present in the beam	Label present in the beam
Output state (PNP or NPN) indicator: green LED (illuminated when sensor output is ON)	NC	→ ※	J,~ ⊗
	NO	- <u></u>	<u>-</u>

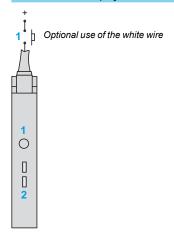
(1) By reversing supply connections.



Photo-electric sensors

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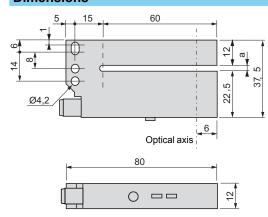
Presentation (adjustment and indicators)



Teaching is performed on the item to which the label is affixed

- 1 Teach mode button
- 1 press: standard teaching (red LED flashes for 2 s)
- 2 presses: fine teaching (green LED flashes for 2 s)
- 1 prolonged press: keypad locking (red LED on)
- 2 Red LED and green LED flash: short-circuit or object too opaque.

Dimensions



Reference	a (passageway)
XUYFA98•••3COS	3
XUYFA98•••5COS	5

Wiring schemes (sensor connector pin view)

Connector

Pin n° - colour

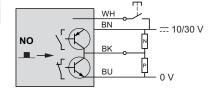
1 BN: Brown

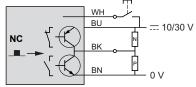
1 3

2 WH: White (input)

3 BU: Blue

4 BK: Black (PNP and NPN outputs)



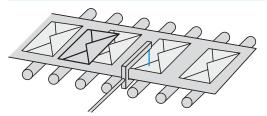


■ → Object detected

If the white wire is not used, connect to 0 V.

Application examples

Detection of overlapping envelopes



Detection of labels on belt

