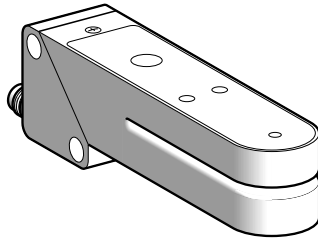


Photo-electric sensors

Osiris® Application, packaging series
For label detection (1)
d.c. supply. Solid-state output

Fork design



System		Thru-beam	
Type of transmission		Infrared	Red/green
Nominal sensing distance (Sn)		2 mm	2 mm
References			
3-wire PNP and NPN	Light of dark programmable switching (2)	XUV K0252S	XUV K0252VS
Weight (kg)		0.085	0.085

Characteristics	
Product certifications	CE
Ambient air temperature	Operation : 0...+ 55 °C. Storage : - 20...+ 70 °C
Vibration resistance	Amplitude ± 1.5 mm up to 55 Hz, 7 gn (f = 10...55 Hz), conforming to IEC 60068-2-6
Shock resistance	30 gn, duration 11 ms, conforming to IEC 60068-2-27
Degree of protection	IP 65 conforming to IEC 529
Connection	M8 connector (suitable female connectors, see page 30210/2)
Materials	Case : zinc alloy ; lens : glass
Rated supply voltage	== 12...24 V with protection against reverse polarity
Voltage limits	== 10...30 V (including ripple)
Switching capacity (sealed)	≤ 100 mA with overload and short-circuit protection
Voltage drop, closed state	≤ 1.5 V
Output clamping resistor	10 kΩ
Current consumption, no-load	≤ 50 mA
Maximum switching frequency	10 kHz
Delays	First-up : ≤ 30 ms ; response < 100 μs ; recovery < 100 μs

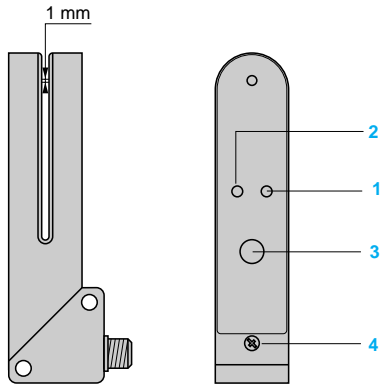
Function table	Function	Thru-beam system	
		Absence of label in the beam	Presence of label in the beam
Output state (PNP or NPN) indicator (illuminated when detector output is ON)	Light switching		
	Dark switching		

(1) Applications : the infrared transmission beam detector **XUV K0252S** is suitable for the detection of all types of opaque legends ; the red/green transmission beam detector **XUV K0252VS** is suitable for the detection of all types of legends of different colours.
(2) The detector incorporates "self-teaching" setting : the light or dark switching function is selected when performing the first stage of the "self-teaching" setting procedure during set-up of the detector (see "self-teaching" setting procedure, page 30164/3).

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Presentation

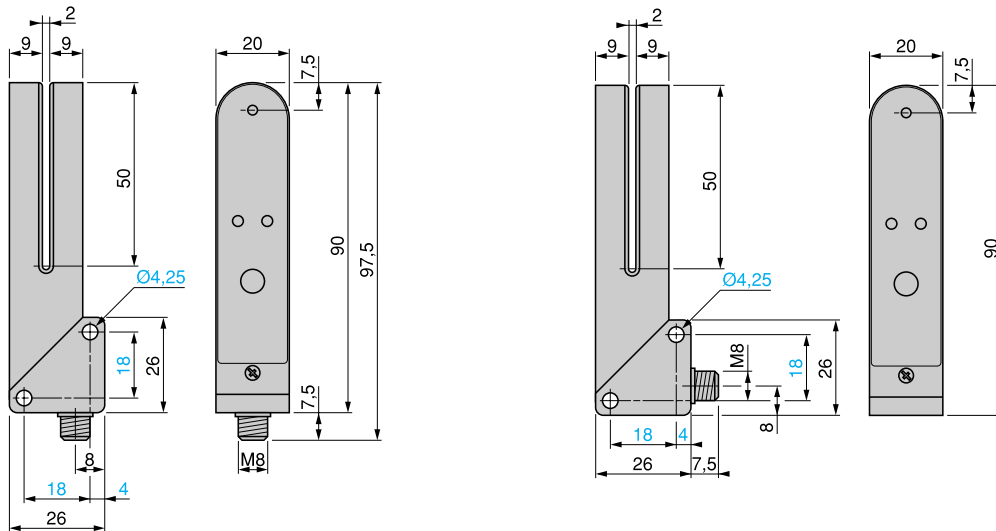


“Self-teaching” setting procedure

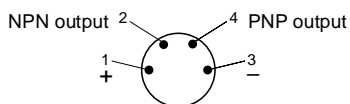
- Place the label to be detected in the beam of the optical fork. Press the SET button and hold down until the green LED 2 goes out.
- When the green LED 2 flashes, the detector has “learnt” the label. Following this, place the item to which the label is affixed in the beam of the optical fork. Press the SET button and hold down until the green LED 2 goes out.
- When the green LED 2 illuminates as a steady light, the “self-teaching” setting procedure is completed and the detector is ready for operation.

- 1 Yellow LED - output state indicator
- 2 Double colour green/red LED - Ready/Error
- 3 “Self-teaching” SET button
- 4 Locking screw

Dimensions



Connector scheme (detector connector pin view)



Depending on connector page 30210/2.