

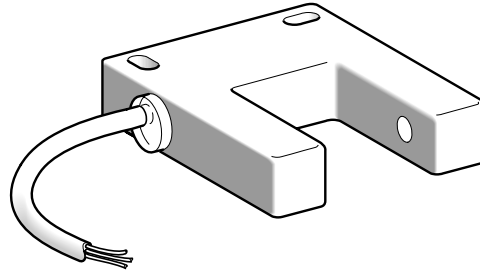
Photo-electric sensors

OsiSense XU Application, material handling series

Optical fork with integrated amplifier

DC supply. Solid-state output

Fork design



System	Thru-beam
Type of transmission	Infrared
Nominal sensing distance (Sn)	30 mm

References

3-wire, PNP	NO function	XUVH0312
3-wire, NPN	NO function	XUVJ0312
Weight (kg)		0.130

Characteristics

Product certifications		CE
Ambient air temperature	For operation	- 5...+ 55 °C
	For storage	- 20...+ 70 °C
Vibration resistance	Conforming to IEC 60068-2-6	Amplitude ±1 mm up to 42 Hz, 7 gn (f = 10...42 Hz)
Shock resistance	Conforming to IEC 60068-2-27	30 gn, duration 11 ms
Degree of protection	Conforming to IEC 60529	IP 54
Connection		Pre-cabled: diameter 5 mm, length 2 m, wire c.s.a.: 3 x 0.34 mm ²
Materials	Case	PC/ABS
	Lenses	PMMA
	Cable	PvR
Rated supply voltage		≡ 24 V with protection against reverse polarity
Voltage limits		≡ 19...38 V (including ripple)
Switching capacity (sealed)		≤ 150 mA with overload and short-circuit protection
Voltage drop, closed state		≤ 1.5 V
Current consumption, no-load		≤ 20 mA
Maximum switching frequency		1000 Hz
Delays	First-up	≤ 30 ms
	Response	500 μs
	Recovery	500 μs

Function table	Function	Thru-beam system	Object present in the beam
NO function		No object present in the beam	
Output state (PNP or NPN) indicator: red LED (illuminated when sensor output is ON)	NO		