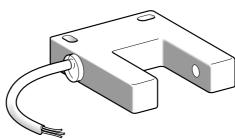
Photo-electric sensors

Osiris® Application, mechanical handling series Optical fork type with integral amplifier d.c. supply. Solid-state output

Fork design



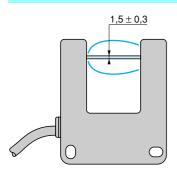
System		Thru-beam		
Type of transmission		Infrared		
Nominal sensing distance (Sn)		30 mm		
References				
3-wire, PNP	Dark switching	XUV H0312		
3-wire, NPN	Dark switching	XUV J0312		
Weight (kg)		0.130		
Characteristics		·		
Product certifications		CE		
Ambient air temperature	Operation	- 5+ 55 °C		
	Storage	-20+ 70 °C		
Vibration resistance	Conforming to IEC 60068-2-6	Amplitude ± 1 mm at up to 42 Hz, 7 gn (f = 1042 Hz)		
Shock resistance	Conforming to IEC 60068-2-27	30 gn, duration 11 ms		
Degree of protection	Conforming to IEC 529	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		
	Lens	PMMA		
	Cable	PvR		
Rated supply voltage		== 24 V with protection against reverse polarity		
Voltage limits		== 1938 V (including ripple)		
Switching capacity (sealed)		< 150 mA with overload and short-circuit protection		
Voltage drop, closed state		≤ 1.5 V	≤ 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		Thru-beam system		
Dark switching		No object present in the beam	Object present in the beam	
Output state (PNP or NPN) LED (illuminated when detector output	s ON)	<i>-</i> ── ⊗	 	

Curves, dimensions, schemes

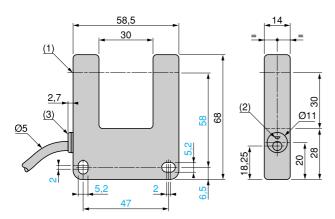
Photo-electric sensors

Osiris® Application, mechanical handling series Optical fork type with integral amplifier d.c. supply. Solid-state output

Detection curve



Dimensions

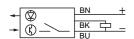


(1) Optical axis (2) LED (3) Diffuser Maximum tightening torque of fixing screws : 3 N.m

Wiring schemes (3-wire ===)

Dark switching (no object present)

PNP output



NPN output

