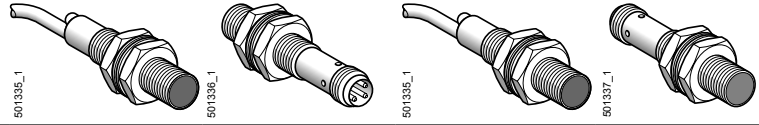


Photo-electric sensors

OsiSense XU Application, assembly series
Metal case, cylindrical, threaded M8 x 1
DC supply. Solid-state output

Design 8



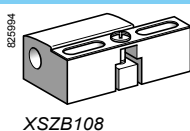
Connection	Pre-cabled Connector	■ -	- ■	■ -	- ■
System		Thru-beam	Thru-beam	Diffuse	Diffuse
Type of transmission		Infrared	Infrared	Infrared	Infrared
Nominal sensing distance (Sn)		2 m	2 m	0.05 m	0.05 m
References					
3-wire, PNP	NO function	XUAH0214	XUAH0214S	XUAH0515	XUAH0515S
	NC function	XUAH0224	XUAH0224S	XUAH0525	XUAH0525S
3-wire, NPN	NO function	XUAJ0214	XUAJ0214S	XUAJ0515	XUAJ0515S
	NC function	XUAJ0224	XUAJ0224S	XUAJ0525	XUAJ0525S
Transmitter		XUAH0203	XUAH0203S	-	-
Weight (kg)		0.050	0.015	0.50	0.015

Characteristics

Product certifications		CE, cULus			
Ambient air temperature	For operation	- 25...+ 55 °C			
	For storage	- 30...+ 70 °C			
Vibration resistance	Conforming to IEC 60068-2-6	7 gn, amplitude ± 1 mm (f = 10...55 Hz)			
Shock resistance	Conforming to IEC 60068-2-27	30 gn, duration 11 ms			
Degree of protection	Conforming to IEC 60529	IP 67 - IP 65	IP 65	IP 67 - IP 65	IP 65
Connection	Pre-cabled	Ø 3.5 mm, length 2 m, wire c.s.a.: 3 x 0.14 mm ²			
	Connector	M8 female connectors, 3-pin			
Materials	Case	Nickel plated brass			
	Cable	PvR	-	PvR	-
	Lenses	PMMA			
Rated supply voltage		⎓ 12...24 V with protection against reverse polarity			
Voltage limits (including ripple)		⎓ 10...30 V			
Switching capacity (sealed)		≤ 100 mA with overload and short-circuit protection			
Voltage drop, closed state		≤ 1 V			
Current consumption, no-load	Transmitter	≤ 15 mA			
	Receiver	≤ 10 mA			
	Diffuse	≤ 25 mA			
Maximum switching frequency		2000 Hz		1000 Hz	
Delays	First-up	≤ 20 ms			
	Response and recovery	≤ 0.25 ms		≤ 0.5 ms	

Function table		Function		Diffuse or through beam system	
				No object present in the beam	Object present in the beam
Output state (PNP or NPN) indicator: yellow LED (illuminated when sensor output is ON)	NO				
	NC				

Fixing accessories (1)



Description	Reference	Weight kg
Plastic fixing clamp with locking screw	XSZA108	0.007
Plastic fixing clamp for sensor replacement without adjustment	XSZB108	0.006

(1) For further information, see page 164.