

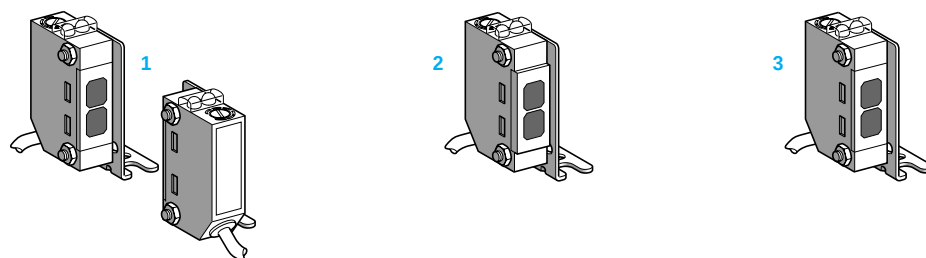
Photo-electric detectors

Osiris® universal detectors
d.c. supply. Solid state output. Pre-cabled
With test output and protection against mutual interference

Accessories :
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References, characteristics

Miniature design



System	Thru-beam 1	Reflex 2	Polarised reflex 2	Diffuse 3		Convergent diffuse 2
Type of transmission	Infra-red	Infra-red	Red	Infra-red	Infra-red	Red
Nominal sensing distance (Sn)	7 m	3 m (with Ø 80 mm reflector)	2 m (with Ø 80 mm reflector)	0.70 m	0.10 m	0.015 m

References

3-wire, PNP	Light or dark programmable switching	XUM-H073534	XUM-H03353	XUM-H023539	XUM-H703535	XUM-H103535	XUM-H15353R
3-wire, NPN	Light or dark programmable switching	XUM-J073534	XUM-J03353	XUM-J023539	XUM-J703535	XUM-J103535	XUM-J15353R
Transmitter		XUM-H07301	—	—	—	—	—
Weight (kg)		0.080	0.080	0.080	0.080	0.080	0.080

Characteristics

Product certifications	CE, UL, CSA
Ambient air temperature	Operation : - 25...+ 55 °C. Storage : - 30...+ 70 °C
Vibration resistance	7 gn, amplitude ± 1.5 mm (f = 10...55 Hz), conforming to IEC 68-2-6
Shock resistance	50 gn, 3 axes, 3 times
Degree of protection	IP 67 conforming to IEC 529
Connection	Pre-cabled, diameter 4.5 mm, length 2 m, wire c.s.a. : 6 x 0.2 mm ² (5 x 0.2 mm ² for thru-beam receiver, 3 x 0.2 mm ² for thru-beam transmitter)
Materials	Case : ABS/PC ; lens : PMMA/PC ; cable : PVC
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
Current consumption, no-load	Thru-beam : ≤ 50 mA ; reflex, diffuse : ≤ 35 mA
Maximum switching frequency	500 Hz
Delays	First-up : 1 ms ; recovery : 1 ms

Function table	Function	Thru-beam and reflex systems		Diffuse system	
		No object present in the beam	Object present in the beam	No object present in the beam	Object present in the beam
Output state (PNP or NPN) indicator : yellow LED (illuminated when detector output is ON)	Light switching				
	Dark switching				

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Curves, dimensions, schemes

Ø of beam
cm

2
1
0
-1
-2

0,2 0,4 0,7 m

Sn ≤ 0,7 m

1
2

Object 20 x 20 cm
1 White 90 %
2 Grey 18 %

Bracket fixing

Ø3x7 12 4 8 16 3 7