

High-performance "O6 wetline" photoelectric sensors



Tiny yet powerful photocells for the food industry

- Stainless steel housing with protection rating IP 68 / IP 69K
- Easy adjustment via potentiometer
- Diffuse reflection sensors with reliable background suppression
- Object colour has no influence on the range
- Also available as through-beam or retro-reflective system



Best optical performance

The diffuse reflection sensors distinguish themselves by reliable background suppression, even in case of highly reflective backgrounds. The sensing range is independent of the characteristics and colour of the object to be detected. A special feature is the automatic sensitivity compensation that guarantees reliable operation even in steam, smoke or highly reflective environments.

Ideal for food applications

The potentiometers are provided with a double seal and are, like the front pane, embedded flush to allow residue-free cleaning. The transparent black housing cover ensures that, even in bright lighting conditions, the LEDs are highly visible. The coated front pane is made of resistant, shatterproof plastic.



Range [m]	Light spot diameter [mm]	Light-on / dark-on mode	Current consumption [mA]	Switching frequency [Hz]	Order no.	Order no.
Diffuse reflection sensor with background suppression · PVC cable, 2 m · 3-wire DC					NPN	PNP
2...200 mm	8*	adjustable	20	1000	O6H304	O6H300
Diffuse reflection sensor with background suppression · M12 connector with 0.3 m PVC cable · 3-wire DC					NPN	PNP
2...200 mm	8*	adjustable	20	1000	O6H305	O6H301
Diffuse reflection sensor · PVC cable, 2 m · 3-wire DC					NPN	PNP
5...500 mm	15*	adjustable	20	1000	O6T304	O6T300
Diffuse reflection sensor · M12 connector with 0.3 m PVC cable · 3-wire DC					NPN	PNP
5...500 mm	15*	adjustable	20	1000	O6T305	O6T301
Retro-reflective sensor with polarisation filter · PVC cable, 2 m · 3-wire DC					NPN	PNP
5...5000 mm	150**	adjustable	20	1000	O6P304	O6P300
Retro-reflective sensor with polarisation filter · M12 connector with 0.3 m PVC cable · 3-wire DC					NPN	PNP
5...5000 mm	150**	adjustable	20	1000	O6P305	O6P301
Through-beam sensor transmitter · PVC cable, 2 m · 2-wire DC						
0...10000 mm	300*	–	20	–	O6S300	
Through-beam sensor transmitter · M12 connector with 0.3 m PVC cable · 2-wire DC						
0...10000 mm	300*	–	20	–	O6S301	
Through-beam sensor receiver · PVC cable, 2 m · 3-wire DC					NPN	PNP
0...10000 mm	–	adjustable	20	1000	O6E304	O6E300
Through-beam sensor receiver · M12 connector with 0.3 m PVC cable · 3-wire DC					NPN	PNP
0...10000 mm	–	adjustable	20	1000	O6E305	O6E301

* at maximum range

** referred to prismatic reflector Ø 80 mm

Accessories

Type	Description	Order no.
	Mounting set for clamp mounting, stainless steel	E21272
	Bracket for free-standing mounting, stainless steel	E21271
	Protective bracket, stainless steel	E21273
Prismatic reflectors for the food industry (up to 140 °C)		
	18 x 18 mm, Solidchem plastic	E21267
	56 x 38 mm, Solidchem plastic	E21268
	48 x 48 mm, Solidchem plastic	E21269
	96 x 96 mm, Solidchem plastic	E21270

Common technical data

Type of light	red light 633 nm	
Operating voltage	[V DC]	10...30
Switching status indication	LED	yellow
Operation	LED	green
Current rating	[mA]	100
Voltage drop	[V]	< 2.5
Protection rating, class	IP 65, IP 67, IP 68, IP 69K III	
Short-circuit protection, pulsed	•	
Reverse polarity protection / overload protection	• / •	
Ambient temperature	[°C]	-25...80
Materials	housing	high-grade stainless steel (1.4404 / 316L)
	lens	PPSU PMMA