

When oil is all over – the new O6 coolant



Photoelectric sensor for use with coolants / oils

- Long life due to resistant materials
- Diffuse reflection sensor with reliable background suppression
- Range is independent of the object colour
- Design with 4-pole M8 connector
- Stainless steel housing with protection rating IP 68 / IP 69K









The optimum choice in metalworking

The new high-performance O6 coolant sensors are especially suited for applications in metal working. Other applications are conveyor technology and the automotive industry.

The potentiometers are fitted with a double seal. The front pane is embedded flush. Viton which is proven in demanding applications was chosen as the sealing material. The transparent black housing cover ensures that, even in bright lighting conditions, the LEDs are highly visible.

Best optical performance

The diffuse reflection sensors provide reliable background suppression, even in cases of highly reflective backgrounds and objects like the oily and greasy metal surfaces of the parts to be worked. The sensing range is independent of the type and colour of the object to be detected.

The new O6 coolant reliably performs its duty in applications with coolants / oils.



Position sensors

Infrared sensors / red light sensors



Range [mm]	Spot diameter [mm]	Connection M8 connector	Type of light, wave length [nm]	Current consumption [mA]	Order no.	Order no.	
Diffuse reflection sensor with background suppression · 3-wire DC						PNP	
2200	8*	4-pole	Red light, 633	22	O6H401	O6H400	
Diffuse reflection sensor · 3-wire DC						PNP	
5500	15*	4-pole	Red light, 633	16	O6T401	O6T400	
Retro-reflective sensor with polarisation filter · 3-wire DC						PNP	
505000	150**	4-pole	Red light, 645	12	O6P401	O6P400	
Through-beam sensor – transmitter · 2-wire DC							
010000	300*	4-pole	Red light, 645	11	O6S	400	
Through-beam sensor – receiver · 3-wire DC					NPN	PNP	
010000	-	4-pole	Red light, 645	7	O6E401	O6E400	

^{*} at maximum range, ** referred to prismatic reflector \varnothing 80 mm

Accessories

		no.		
Mounting acc	cessories			
	Mounting set for clamp mounting, stainless steel, Ø 10 mm Mounting set for clamp mounting,	E21272		
	stainless steel, Ø 12 mm	E21275		
	Angle bracket for free-standing mounting, stainless steel	E21271		
1400	Protective bracket, stainless steel	E21273		
, ,				
	Rod, 120 mm, Ø 10 mm, M8 thread, stainless steel	E21081		
	Rod, 100 mm, Ø 12 mm, M10 thread, stainless steel	E20938		
Prismatic reflectors				
• 5	Ø 50 mm, plastic	E20956		
	Ø 80 mm, plastic	E20005		
Saugh.	48 x 48 mm, PMMA, ABS	E20744		
	95 x 95 mm, plastic	E20454		
Power suppli	es			
Prismatic refl	Plastic housing, 24 V DC, 2.5 A	DN1031		
- C	Metal housing, 24 V DC, 3.3 A	DN401		

Common technical data						
Operating voltage	[V DC]	1030				
Protection rating, protection class		IP 65, IP 67, IP 68, IP 69 K, III				
Switching frequency	[Hz]	1000				
Switching status indication	LED	Yellow				
Operation	LED	Green				
Current rating	[mA]	100				
Voltage drop	[V]	< 2.5				
Short-circuit protection, pulsed	I	•				
Reverse polarity protection / overload protection		• / •				
Ambient temperature	[°C]	-2560				
Materials	Housing Lens Seal	High-grade stainless steel (316L/1.4404), PPSU PMMA FKM				

Connection technology

Туре	Description	Order no.
<i>△</i>	Socket, M8, 4-pole 2 m black, PUR cable	EVC153
	Socket, M8, 4-pole 5 m black, PUR cable	EVC154
	Socket, M8, 4-pole 2 m black, PUR cable	EVC150
	Socket, M8, 4-pole 5 m black, PUR cable	EVC151