

# O6 WetLine miniature highperformance photoelectric sensors



# Powerful and robust sensors 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









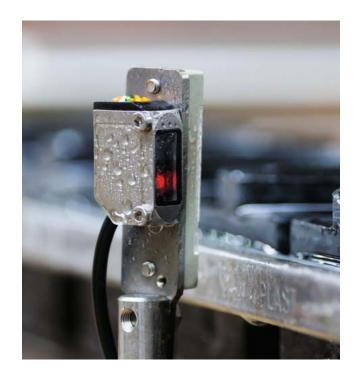


#### **Best optical performance**

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.



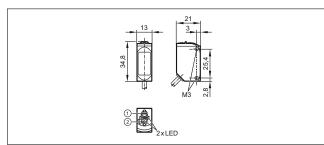
# Position sensors

## Infrared sensors / red light sensors

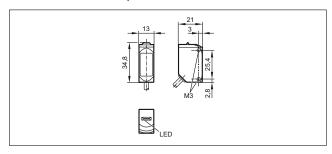


Range [mm]	Light spot diameter [mm]	Connection	Current consumption [mA]	Order no.	Order no.
Diffuse reflection sens	Diffuse reflection sensor with background suppression · 3-wire DC			NPN	PNP
2200	8*	PVC cable, 2 m	22	O6H304	О6Н300
2200	8*	M12 connector with 0.3 m PVC cable	22	O6H305	O6H301
Diffuse reflection sens	sor · 3-wire DC			NPN	PNP
5500	15*	PVC cable, 2 m	16	O6T304	O6T300
5500	15*	M12 connector with 0.3 m PVC cable	16	О6Т305	O6T301
Retro-reflective sensor	r with polarisation filter	· 3-wire DC		NPN	PNP
505000	150**	PVC cable, 2 m	12	O6P304	O6P300
505000	150**	M12 connector with 0.3 m PVC cable	12	O6P305	O6P301
Through-beam sensor	transmitter · 2-wire DC				
010000	300*	PVC cable, 2 m	11	069	300
010000	300*	M12 connector with 0.3 m PVC cable	11	065	301
Through-beam sensor	receiver · 3-wire DC			NPN	PNP
010000	_	PVC cable, 2 m	7	O6E304	O6E300
010000	-	M12 connector with 0.3 m PVC cable	7	O6E305	O6E301

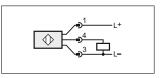
### **Dimensions**

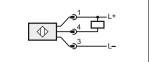


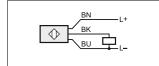
- Switch output function
   Potentiometer sensitivity

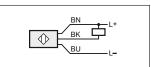


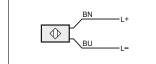
## Wiring diagram

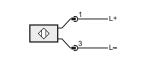












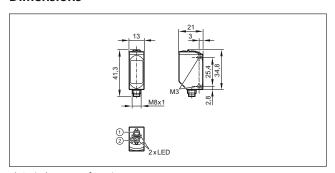
<sup>\*</sup> at maximum range \*\* referred to prismatic reflector Ø 80 mm

# Position sensors

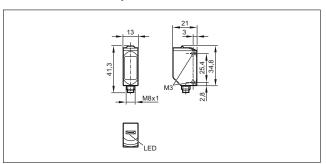


Range [mm]	Light spot diameter [mm]	Connection	Current consumption [mA]	Order no.	Order no.
Diffuse reflection sens	Diffuse reflection sensor with background suppression · 3-wire DC			NPN	PNP
2200	8*	M8 connector, 3-pole	22	O6H306	O6H302
2200	8*	M8 connector, 4-pole	22	О6Н307	О6Н303
Diffuse reflection sens	or · 3-wire DC			NPN	PNP
5500	15*	M8 connector, 3-pole	16	O6T306	O6T302
5500	15*	M8 connector, 4-pole	16	О6Т307	О6Т303
Retro-reflective sensor	with polarisation filter	· 3-wire DC		NPN	PNP
505000	150**	M8 connector, 3-pole	12	O6P306	O6P302
505000	150**	M8 connector, 4-pole	12	O6P307	O6P303
Through-beam sensor	transmitter · 2-wire DC				
010000	300*	M8 connector, 3-pole	11	069	302
010000	300*	M8 connector, 4-pole	11	O65	303
Through-beam sensor	receiver · 3-wire DC			NPN	PNP
010000	_	M8 connector, 3-pole	7	O6E306	O6E302
010000	-	M8 connector, 4-pole	7	O6E307	O6E303

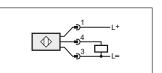
### **Dimensions**

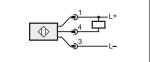


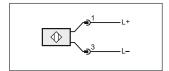
- Switch output function
   Potentiometer sensitivity



## Wiring diagram







<sup>\*</sup> at maximum range \*\* referred to prismatic reflector Ø 80 mm

# Position sensors

## Infrared sensors / red light sensors



### **Accessories**

Туре	Description	Order no.
Mounting acc	cessories	
- P	Mounting set for clamp mounting, stainless steel	E21272
	Bracket for free-standing mounting, stainless steel	E21271
	Stairness steer	
00 4	Protective bracket,	E21273
4400	stainless steel	EZ12/3
	Mounting rod, 120 mm, Ø 10 mm,	
	M8 thread, stainless steel	E21081
9	Angle bracket for reflector E21269, stainless steel	E20724
0.8	Mounting set for reflector E21270, clamp mounting, stainless steel	E20935
	, , , , , , , , , , , , , , , , , , ,	
Prismatic refl	ectors 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
	48 x 48 mm, Solidchem plastic 96 x 96 mm, Solidchem plastic	
Power suppli	96 x 96 mm, Solidchem plastic	
Power suppli	96 x 96 mm, Solidchem plastic	E21270
Power suppli	96 x 96 mm, Solidchem plastic  es  Plastic housing,	E21269 E21270 DN103
	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A  Metal housing,	E21270
Power suppli	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A	E21270
	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A  Metal housing,	E21270
	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A  Metal housing,	E21270
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	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A  Metal housing,	E21270
	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A  Metal housing,	E21270
	96 x 96 mm, Solidchem plastic  es  Plastic housing, 24 V DC, 2.5 A  Metal housing,	E21270

Commo	n technical	data
T Clinks		
Type of light		red light 633 nm
Operating voltage	[V DC]	1030
Protection rating, class		IP 65, IP 67, IP 68, IP 69K, III
Switching frequency	[Hz]	1000
Switching status indication	LED	yellow
Operation	LED	green
Light-on / dark-on mode		adjustable
Current rating	[mA]	100
Voltage drop	[V]	< 2.5
Short-circuit protection, pulsed	d	•
Reverse polarity protection / o protection	verload	• / •
Ambient temperature	[°C]	-2580
Materials	housing	high-grade stainless steel (1.4404 / 316L)
	lens	PPSU PMMA

## **Connection technology**

Туре	Description	Order no.
	Socket, M8, 2 m orange, PVC cable	EVT122
	Socket, M8, 5 m orange, PVC cable	EVT123
	Socket, M8, 2 m orange, PVC cable	EVT126
	Socket, M8, 5 m orange, PVC cable	EVT127
	Socket, M8, 2 m orange, PVC cable, LED	EVT130
	Socket, M8, 5 m orange, PVC cable, LED	EVT131
	Socket, M12, 4-pole, 5 m orange, PVC cable	EVT001
	Socket, M12, 4-pole, 2 m orange, PVC cable	EVT064