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The new compact O6 photoelectric sensors with infrared light

Powerful photoelectric sensors in a plastic housing

- **Precise detection with non-visible infrared light**
- **Increased operational safety in steam, fog and dust**
- **Easy setting via potentiometer or rotary switch**
- **In particular suitable for gate applications**
- **Not only available as energetic diffuse reflection sensor but also as through-beam sensor**

IP 65 IP 67

Ideal for universal applications

Whether in different types of access controls such as gate applications in airports or with escalators, – wherever people are to be detected, visible light is often not wanted. In such applications especially photoelectric sensors with non-visible infrared light find a wide range of applications.

Best optical performance

Infrared light allows longer ranges, in particular with dark (black) objects. In addition, the products feature high extraneous light immunity. Besides energetic diffuse reflection sensors the units are also available as through-beam sensors.

All models are equipped with a 4-pole M8 connector. The sensors are distinguished by an excellent price/performance ratio. Extensive mounting accessories complete the range.

Position sensors
Infrared sensors / red light sensors

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Range [mm]	Light spot diameter [mm]	Connection	Light-on / dark-on mode	Order no.	Order no.
Diffuse reflection sensor · 3-wire DC				**NPN**	**PNP**
5...600 mm	15*	M8 connector, 4-pole	• / • adjustable	O6T216	O6T215
Through-beam sensor - transmitter · 2-wire DC					
0...15 m	300*	M8 connector, 4-pole	– / –		O6S215
Through-beam sensor – receiver · 3-wire DC				**NPN**	**PNP**
0...15 m	–	M8 connector, 4-pole	• / • adjustable	O6E216	O6E215

* at maximum range

Accessories

Type	Description	Order no.
Mounting accessories		
	Mounting set for clamp mounting, stainless steel, Ø 10 mm	E21272
	Mounting set for clamp mounting, stainless steel, Ø 12 mm	E21275
	Angle bracket for free-standing mounting, stainless steel	E21271
	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
	Cube for mounting on an aluminium profile, M8 thread, diecast zinc	E20950
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	E20951
Power supplies		
	Plastic housing, 24 V DC, 2.5 A	DN1031
	Metal housing, 24 V DC, 3.3 A	DN4011

Common technical data		
Type of light		Infrared light 850 nm
Operating voltage	[V DC]	10...30
Protection rating, protection class		IP 65 / IP 67, III
Switching frequency	[Hz]	1000
Switching status indication	LED	Yellow
Indication stable operation	LED	Green
Current rating	[mA]	100
Voltage drop	[V]	< 2.5
Short-circuit protection, pulsed		•
Reverse polarity protection / Overload protection		• / •
Ambient temperature	[°C]	-25...60
Materials	Housing	ABS
	Lens	PMMA

Connection technology

Type	Description	Order no.
	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

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For further technical details please visit: www.ifm.com