

# M18 photoelectric sensors – quality with excellent performance.



Universal and easy to mount.

- Extremely long ranges.
- Diffuse reflection sensor with background suppression and 300 mm range.
- Excellent price / performance ratio.
- Teach mode for simple and precise adjustment to the application.
- Robust high-grade stainless steel housing for harsh environments.

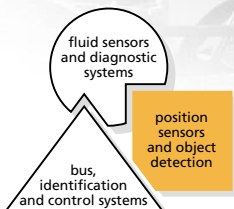
High accuracy	High-grade stainless steel	TEACH-IN for simple operation.	High sensing range
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## High performance M18 photoelectric sensor

High-quality technology, extraordinary features and an outstanding price / performance ratio make this sensor suitable for all industrial areas. The extremely high ranges create new solutions for your applications.

## Highest precision and simple handling

The innovative teach mode selects the optimum setting of the sensors to your application in no time. This is high-tech for the high demands of industry on robustness and precision – implemented in a user-friendly and low-cost version.



**Applications:**  
Conveying, packaging and automotive industry

System	Design / type [mm]	Range [mm]	Teach button	Switching frequency [Hz]	Current consumption [mA]	Order no.
<b>M12 connector / 3-wire DC PNP</b>						
Diffuse reflection sensor with background suppression	M18 / L = 72	15...300	•	1000	25	OGH500
Retro-reflective sensor with polarisation filter	M18 / L = 72	30...5000	•	2000	20	OGP500
Through-beam – transmitter	M18 / L = 72	0...25000	–	–	20	OGS500
Through-beam – receiver	M18 / L = 72	0...25000	•	1000	11	OGE500

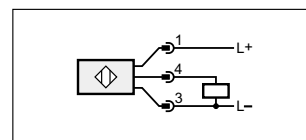
**Accessories**

Type	Description	Order no.
	Mounting set M18 for free-standing mounting, angled, short	E20718
	Mounting set M18 for free-standing mounting, angled, short, stainless steel	E20870
	Mounting set M18 for free-standing mounting, angled, long	E20719
	Mounting set M18 for free-standing mounting, angled, long, stainless steel	E20869
	Mounting set M18 for mounting on an aluminium profile, angled, short	E20867
	Mounting set M18 for mounting on an aluminium profile, angled, long	E20866
	Shaft straight, 100 mm long, Ø 12 mm, M10 thread, stainless steel	E20938
	Shaft angled, 200 mm long, Ø 12 mm, M10 thread, stainless steel	E20940
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	E20951
	Clamp with M10 x 55 mm screw	E20716
	Clamp with M10 x 55 mm screw, stainless steel	E20946
	10 M18 nuts, CuZn nickel-plated	E21089
	100 M18 nuts, CuZn nickel-plated	E21091
	10 M18 nuts, stainless steel	E21090
	100 M18 nuts, stainless steel	E21092

**Common technical data**

	Type OG
Type of light	red light
Operating voltage [V]	10...36 DC
Current rating [mA]	200
Protection	IP 67, II
Voltage drop [V]	< 2.5
Short-circuit protection	•
Rev. polarity / overload protection	• / •
Operating temperature [°C]	-25...80
Function display	
Switching status	LED yellow
Materials	high-grade stainless steel, PMMA, PA, LCP, TPU

**Wiring diagrams of the units**



**Connectors and splitter boxes**

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	E10906
	M12 socket, 5 m black, PUR cable	E10907
	M12 socket, 2 m black, PUR cable	E10900
	M12 socket, 5 m black, PUR cable	E10901

The sensors are supplied without nuts. They can be ordered separately.

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