



M18 laser sensors for highest precision for small objects.



Highly precise position sensing in assembly and handling technology.

- Reliable detection even of tiny objects from 0.5 mm.
- Quality and precision at an unbeatable price.
- Visible laser light spot for a simple sensor alignment.
- Teach method saves time and cost for set-up.
- Precise background suppression for a reliable function.

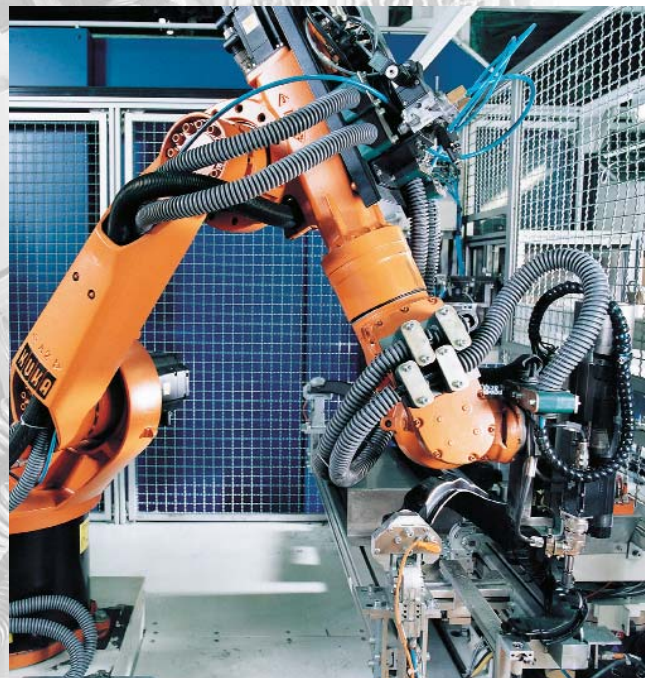
High accuracy	Detection of > minute < objects	Visible laser light spot 	 TEACH-IN for simple operation.
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Highly precise laser sensors

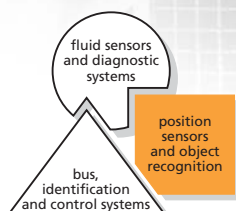
Even tiny objects are reliably detected thanks to the laser technology. The sensor set-up is very user-friendly: The visible laser spot and the new teach method enable optimum sensor setting in no time. Using the new OG type laser sensors price is no longer an issue.

Variants

This series covers powerful through-beam systems, retro-reflective sensors with polarisation filter and diffuse reflection sensors with background suppression for demanding applications frequently found in assembly and handling technology. The light-on / dark-on mode can be conveniently set using the teach buttons. All sensors have a robust stainless steel housing.














Exact positioning of sheet metal parts before welding.



Applications:
Assembly and handling technology

System	Range [mm]	Light spot diameter [mm]	Smallest detectable object [mm]	Switching frequency [Hz]	Current consumption [mA]	Order no.
M12 connector / 3-wire DC PNP						
Diffuse reflection sensor with background suppression	20...200	1.2	1.5	1000	15	OGH700
Retro-reflective sensor with polarisation filter	30...15000	40 (at 15 m)	20 (at 15 m)	2000	15	OGP700
	30...2000	5 (at 2 m)	2 (at 2 m)	2000	15	OGP701
Through-beam – transmitter	0...60000	150 (at 60 m)	–	–	13	OGS700
	0...2000	5 (at 2 m)	–	–	13	OGS701
Through-beam – receiver	0...60000	–	3 (at 60 m)	1000	11	OGE700
	0...2000	–	0.5 (at 2 m)	1000	11	OGE701





Accessories

Type	Description	Order no.
	Assembly and fine adjustment unit for M18 laser sensors, high-gr. stainless steel	E20737
	Prismatic reflector 50 x 50 mm for laser sensors	E20722
	Prismatic reflector Ø 19 mm for laser sensors	E20993
	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
	Shaft straight, 100 mm long, Ø 12 mm, M10 thread, stainless steel	E20938
	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

Common technical data

Type OG laser	
Type of light	laser (red light 655 nm)
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]	-10...60
Function display	LED
Switching status	yellow
Teach button	•
Design / type [mm]	M18 / L = 72
Materials	high-grade stainless steel, PMMA, PA, LCP, TPU, EPDM

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	EVC001
	M12 socket, 5 m black, PUR cable	EVC002
	M12 socket, 2 m black, PUR cable	EVC004
	M12 socket, 5 m black, PUR cable	EVC005

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Position sensors and object recognition