



Position sensors and object recognition

The OG BasicLine now also in plastic.



Compact and powerful M18 photoelectric sensors.

- For standard applications in conveying and materials handling.
- The low-cost alternative in PNP or NPN design.
- Through-beam and retro-reflective sensors with fixed setting (plug & play).
- Diffuse reflection sensor: easy setting via potentiometer.
- Universal mounting using system components and mounting accessories.

**PLUG
and
PLAY**

Easy-
to-use



Visible
red light

Applications

The OG type plastic sensors are especially designed for position detection in conveying and materials handling. These sensors are designed to meet the technical requirements of the market at an affordable price.

Cost saving

Setting of the through-beam sensors and retro-reflective sensors with polarisation filter is fixed. This means cost-saving rapid up-time after quick installation with the optional accessories. The diffuse sensor has a potentiometer for fine-tuning in the application.



fluid sensors
and diagnostic
systems

position
sensors
and object
recognition

bus,
identification
and control systems

Applications:
conveying and materials handling

Range [mm]	Protection	Switching frequency [Hz]	Current consumption [mA]	Light-on / dark-on mode	Electrical design	240° potentiometer	Order no.
Diffuse reflection sensor · red light 645 nm · M12 connector · 3-wire							
10...400	IP 65, III	1000	20	• / –	DC PNP	•	OGT100
10...400	IP 65, III	1000	20	– / •	DC PNP	•	OGT101
10...400	IP 65, III	1000	20	• / –	DC NPN	•	OGT102
10...400	IP 65, III	1000	20	– / •	DC NPN	•	OGT103
Retro-reflective sensor · red light 645 nm · M12 connector · 3-wire							
50...2500	IP 67, III	1000	20	– / •	DC PNP	–	OGP100
50...2500	IP 67, III	1000	20	• / –	DC PNP	–	OGP101
50...2500	IP 67, III	1000	20	– / •	DC NPN	–	OGP102
50...2500	IP 67, III	1000	20	• / –	DC NPN	–	OGP103
Through-beam sensor – transmitter · red light 645 nm · M12 connector							
8000	IP 67, III	–	20	–	–	–	OGS100
Through-beam sensor – receiver · red light 645 nm · M12 connector · 3-wire							
8000	IP 67, III	1000	8	– / •	DC PNP	–	OGE100
8000	IP 67, III	1000	8	• / –	DC PNP	–	OGE101
8000	IP 67, III	1000	8	– / •	DC NPN	–	OGE102
8000	IP 67, III	1000	8	• / –	DC NPN	–	OGE103





Accessories

Type	Description	Order no.
	Clamp, for mounting rod Ø 12 mm, diecast zinc, steel	E20720
	Clamp, for mounting rod Ø 12 mm, diecast zinc, steel	E20721
	Cylinder bolt, M10 x 45 mm, galvanised steel	E21208
	Angle bracket for type M18, stainless steel	E10736
	Mounting rod, 100 mm, Ø 12 mm, M10 thread, stainless steel	E20938
	Mounting rod, 200 mm, Ø 12 mm, M10 thread, stainless steel	E20940
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	E20951

Common technical data

Type OGT, OGP, OGS, OGE		
Operating voltage	[V DC]	10...30
Current rating	[mA]	200
Voltage drop	[V]	< 2.5
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Ambient temperature	[°C]	-25...60
Function display	LED	yellow
Output status		yellow
Connection		M12 connector
Materials		ABS, PMMA
Accessories (supplied with the device)		2 plastic nuts

Connectors and splitter boxes

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

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