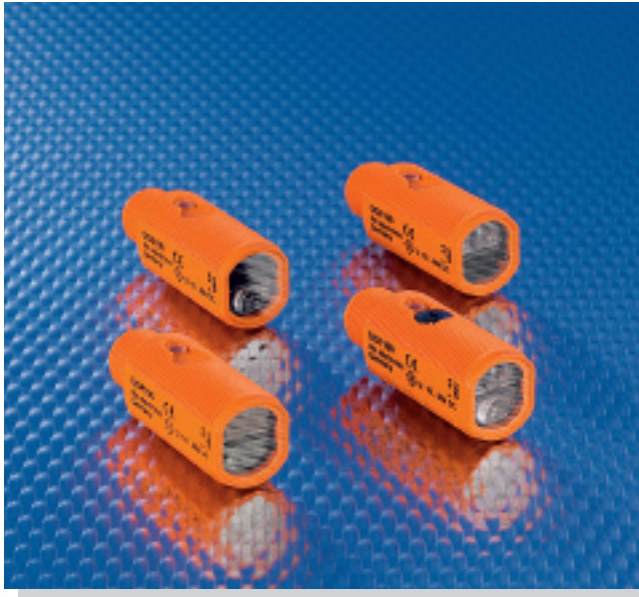




The OG BasicLine photoelectric sensors



Compact and powerful M18 photoelectric sensors

- For standard applications in conveying, packaging and material handling
- OG BasicLine sensors offer a great price / performance value
- Thru-beam and retro-reflective sensors with fixed sensing range
- Diffuse reflective sensors are easily adjusted via potentiometer
- Universal mounting using system components and mounting accessories



ifm introduces a new family of OG photoelectric sensors that provide reliable position detection in a variety of applications such as conveying, packaging, robotics and material handling.

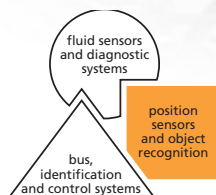
Robust sensors withstand tough applications

Manufactured with a durable plastic housing, the OG BasicLine sensors can withstand tough industrial automation applications. OG BasicLine sensors include diffuse reflective models, polarized retro-reflective models, and thru-beam pairs.

Quick setup

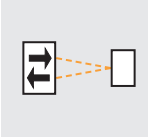
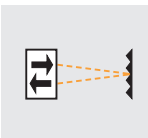
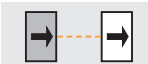
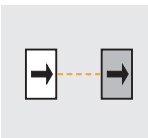
Thru-beam sensors and polarized retro-reflective sensors feature fixed sensing ranges for quick setup. Diffuse reflective sensors have a potentiometer for fine-tuning in the application.

These sensors offer a great price / performance value to meet the needs of industrial automation applications.











Product Specifications

Function	Sensing range	Output	Switching frequency [Hz]	Current consumption [mA]	Part No.	List Price (USD)
Diffuse reflective sensor · red light 645 nm · M12 connector · 3-wire DC						
Diffuse	 10...400 mm (potentiometer)	PNP, Light on	1000	20	OGT100	\$69.00
	10...400 mm (potentiometer)	PNP, Dark on	1000	20	OGT101	\$69.00
	10...400 mm (potentiometer)	NPN, Light on	1000	20	OGT102	\$69.00
	10...400 mm (potentiometer)	NPN, Dark on	1000	20	OGT103	\$69.00
Retro-reflective sensor · red light 645 nm · M12 connector · 3-wire DC						
Polarized retro-reflective	 50...2500 mm (fixed)	PNP, Dark on	1000	20	OGP100	\$69.00
	50...2500 mm (fixed)	PNP, Light on	1000	20	OGP101	\$69.00
	50...2500 mm (fixed)	NPN, Dark on	1000	20	OGP102	\$69.00
	50...2500 mm (fixed)	NPN, Light on	1000	20	OGP103	\$69.00
Thru-beam sensor – transmitter · red light 645 nm · M12 connector						
Thru-beam transmitter	 8 m (fixed)	N/A	–	20	OGS100	\$58.00
Thru-beam sensor – receiver · red light 645 nm · M12 connector · 3-wire DC						
Thru-beam receiver	 8 m (fixed)	PNP, Dark on	1000	8	OGE100	\$66.00
	8 m (fixed)	PNP, Light on	1000	8	OGE101	\$66.00
	8 m (fixed)	NPN, Dark on	1000	8	OGE102	\$66.00
	8 m (fixed)	NPN, Light on	1000	8	OGE103	\$66.00



Accessories

Type	Description	Part No.	List Price (USD)
	Short swivel bracket for OG, die cast zinc	E 20718	\$9.50
	Tall swivel bracket for OG, die cast zinc	E 20719	\$8.50
	80 mm reflector	E 20005	\$5.50
	50 mm reflector	E 20956	\$6.00
	Swivel bracket with 80 mm reflector	E 20995	\$19.50
	Swivel bracket with 50 mm reflector	E 20997	\$13.00

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		yes
Reverse polarity / overload protection		yes / yes
Operating temperature	[°C]	-25...60 (-13...140 °F)
Function display / Output status	LED	yellow
Connection		M12 connector
Materials		ABS, PMMA
Accessories (supplied)		2 plastic nuts
Protection		IP67, III (OGTxxx: IP65, III)

Cordsets

Type	Description	Part No.	List Price (USD)
	2 m black, PUR cable	EVC001	\$9.95
	5 m black, PUR cable	EVC002	\$12.75
	2 m black, PUR cable	EVC004	\$9.95
	5 m black, PUR cable	EVC005	\$12.75