



Position sensors

Measuring photoelectric sensor for the food industry



Photoelectric sensors

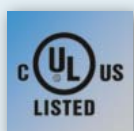
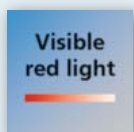


Stainless steel housing with high protection rating for hygienic and wet areas (IP 69K)

Shatter-proof lens for high process reliability

Compact design with standard M18 thread for easy installation

- Quick and easy setting of switch points via IO-Link
- Continuous measurement and monitoring of distances in the running process



Compact design for limited space in the food industry

The space-saving design with lateral M18 thread and connector pointing down is the perfect solution for all requirements in hygienic and wet areas. The sensor has a high-grade stainless steel housing with food-grade sealing material, shatter-proof plastic lens and high protection rating of IP 68 / 69K. It easily withstands aggressive cleaning agents and high-pressure cleaning.

Continuous distance measurement via IO-Link



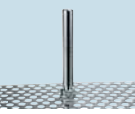

ifm offers the new OG Cubes as diffuse reflection and through-beam sensors. For the diffuse reflection sensors with background suppression, the ranges can be set via IO-Link and, similar to analogue sensors, the distance value is provided to the nearest millimetre. In addition, all versions feature many setting options, such as light-on/dark-on mode or switch-on and switch-off delay for a fast set-up.





Type	Range [mm]	Spot Ø at max. RW / TW* [mm]	Output H = light-on mode / D = dark-on mode**	Protection rating/ protection class	Order no.	
Diffuse reflection sensor with background suppression, 3 wires DC					PNP	NPN
Cube M18	100*	7	H	IP 67; IP 68; IP 69K / III	OGH380	OGH382
	200*	13	H	IP 67; IP 68; IP 69K / III	OGH381	OGH383
Through-beam sensor transmitter, DC						
Cube M18	<15,000	800	–	IP 67; IP 68; IP 69K / III	OGS380	
Through-beam sensor receiver, 3-wire DC					PNP	NPN
Cube M18	<15,000	–	D	IP 67; IP 68; IP 69K / III	OGE380	OGE382
	<15,000	–	H	IP 67; IP 68; IP 69K / III	OGE381	–

* white paper 200 x 200 mm 90 % remission / ** adjustable via IO-Link

Accessories

Type	Description	Order no.
Installation		
	Mounting set for clamp mounting, M10 thread, diecast zinc	E20718
	Mounting set for clamp mounting, M10 thread, stainless steel	E20870
	Mounting set for clamp mounting, Ø 12 mm, diecast zinc	E20836
	Mounting set for clamp mounting, Ø 12 mm, stainless steel	E21207
	Rod, 100 mm, Ø 12 mm, M10 thread, stainless steel	E20938
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	E20951




Connection technology

	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m, black, PUR	EVC002
	Socket, M12, 5 m, grey, MPPE cable	EVF001
	Socket, M12, 10 m, grey, MPPE cable	EVF002

Common technical data

Operating voltage	[V DC]	10...30
Type of light / wave length		Red light, 624 nm
Switching frequency	[Hz]	1000
Switching status indication	LED	yellow
Operation	LED	green
Max. voltage drop	[V]	2.5
Short-circuit protection, pulsed		•
Reverse polarity protection / overload protection		• / •

IO-Link accessories

Type	Description	Order no.
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s)	E30390
	Memory plug, parameter memory for IO-Link sensors	E30398
	IO-Link master with PROFINET interface	AL1100
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011