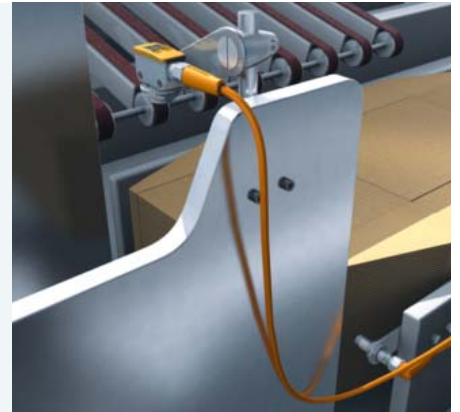




Position sensors

OG Cube: photoelectric sensor in rectangular design with M18 thread



Photoelectric sensors

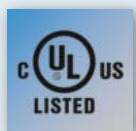
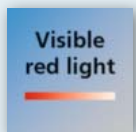


Compact design with standard M18 thread for easy installation

High protection ratings and robust metal housing for harsh industrial environments

Long ranges for universal use

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



Photoelectric compact sensor for limited space

The compact rectangular housing is designed for use in applications with limited installation space. Thanks to the lateral M18 thread and the connector facing downwards, this type is ideally suited for use in conveying applications. The sensor achieves long ranges when detecting light or dark objects.

Continuous distance measurement via IO-Link

ifm offers the new OG Cubes as diffuse reflection, retro-reflective 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. Besides, all versions feature varied setting options, such as light-on/dark-on mode or switch-on and switch-off delay for a fast set-up.



Type [H, W, D mm]	Range [mm]	Spot Ø at max. range* [mm]	Output H = light-on mode / D = dark-on mode***	Protection rating/ protection class	Order no.	
Diffuse reflection sensor with background suppression, 3-wire DC					PNP	NPN
53 x 20 x 36	100*	7	H	IP 67 / III	OGH280	OGH282
	200*	13	H	IP 67 / III	OGH281	OGH283
Diffuse reflection sensor with background suppression, 3-wire DC, programming button					PNP	NPN
53 x 20 x 36	15...200*	13	H / D selectable	IP 67 / III	OGH580	OGH581
Retro-reflective sensor with polarisation filter, 3-wire DC					PNP	NPN
53 x 20 x 36	100...4000**	160	D	IP 67 / III	OGP280	OGP282
	100...4000**	160	H	IP 67 / III	OGP281	OGP283
Through-beam sensor transmitter, DC						
53 x 20 x 36	<15,000	800	–	IP 67 / III	OGS280	
Through-beam sensor receiver, 3-wire DC					PNP	NPN
53 x 20 x 36	<15,000	–	D	IP 67 / III	OGE280	OGE282
	<15,000	–	H	IP 67 / III	OGE281	–

* white paper 200 x 200 mm 90 % remission / ** referred to prismatic reflector Ø 80 mm E20005 / *** 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 cable	EVC002
	Socket, M12, 2 m, black, PUR cable	EVC004
	Socket, M12, 5 m, black, PUR cable	EVC005

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