



Position sensors

Measuring light grids for easy object monitoring in intralogistics.



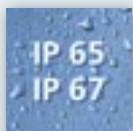
Photoelectric sensors



Simple object dimensioning in intralogistics without complex programming.

High resolution for precise object detection.

- Ease of integration due to a standardised IO-Link interface.
- Selective evaluation of beams to determine the dimensions or distances between objects.



For optimised logistic processes

The measuring light grids are perfectly suitable for monitoring intralogistics processes. An evaluation of how many and which light beams are obstructed is provided and can be used to detect whether the conveyed objects are in the correct and safe transport position.

With a beam distance of 10 millimetres, the height and width of pallets, packages and boxes, too, can be precisely detected.

Precise monitoring with IO-Link

Five different measured values in total can be transmitted via IO-Link using the multi-beam system. The height, position, but also the contour of one or several objects can be derived from these values. What is more, diagnostic information on operating hours are determined and transmitted digitally for needs-based maintenance.



Products

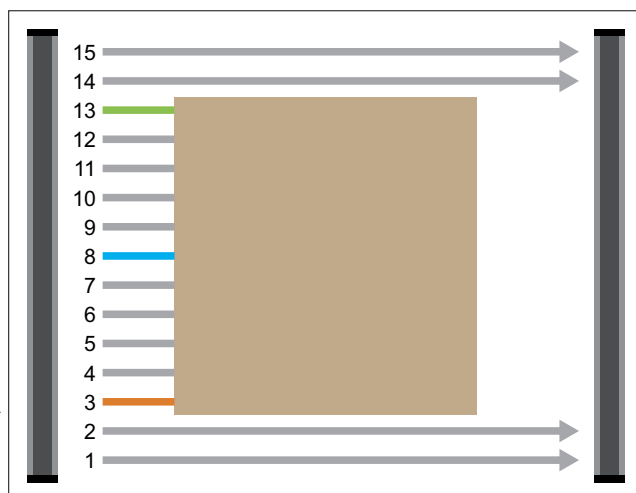
Height Light grids [mm]	Height Measuring range [mm]	Number of beams	Order no.
Measuring light grids with IO-Link			
213	140	15	OY5100
663	590	60	OY5103
1113	1040	105	OY5106
1713	1640	165	OY5110
2163	2090	210	OY5113
2613	2540	255	OY5116

Common technical data

Operating voltage	[V DC]	24 +/- 20%
Ambient temperature	[°C]	-10...55
Max. range* (distance from transmitter to receiver)	[m]	10
Protection rating, Protection class		IP 65 / IP 67 III
Type of light		infrared
Distance of beams	[mm]	10
Output**		PNP / NPN
Output		H / D
H = light-on / D = dark-on mode		

* with Y splitter cable EY5053, ** switchable via IO-Link

Functional principle



Accessories

Design	Description	Order no.
Mounting accessories		
	Mounting and fine adjustment unit	EY3013
	Adjustable brackets	EY3004
	Laser adjustment aid	EY3099
	USB IO-Link master set	ZZ1060
Connection technology		
	Socket, M12, 5 poles 1 m, black, PUR cable	EVC196
	Socket, M12, 5 poles 2 m, black, PUR cable	EVC070
	Socket, M12, 5 poles 5 m, black, PUR cable	EVC071
	Socket, M12, 5 poles 10 m, black, PUR cable	EVC072
	Y splitter cable Range: 1...10 m	EY5053
	Y splitter cable Range: 0...2 m	EY5054

Multi-beam system with 5 measured values

The five different measured values in total are used to derive the height, position and but also the contour of one or several objects.



- FBO First beam occupied: 3
- LBO Last beam occupied: 13
- CBO Central beam occupied: 8
- NBO Number of beams occupied: 11
- NCBO Number of consecutive beams occupied: 11