



Safety technology

All in one unit: light grid with integrated muting unit



Safety light grids



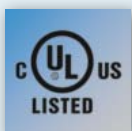
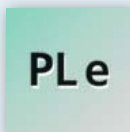
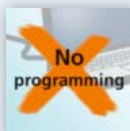
Easy connection of the muting sensors directly to the safety light grid

Muting arms with pre-mounted sensors for rapid set-up

Parallel or crossbeam muting version for detection of variable object sizes

Integrated status light

User-friendly configuration via hardware wiring



Safety light grid with integrated muting function

The new generation of light grids allows for the muting mode without an external junction box or a muting relay being required as they are already integrated into the receiving element.

The supported muting versions are available as either crossbeam or parallel muting. Both versions allow transported material to be safely passed in or out, via the protected area. A status light, integrated into the receiver, allows for indication of the operating status. The muting arms can easily be directly installed on the light grid and are available in two versions: either as muting arms with multi-beam sensors, similar to a miniature light grid, or as pre-mounted mounting set with single-beam sensors. No complex installation and adjustments are necessary anymore.

In conclusion, a complete package for increased safety, configured for your application, quick and easy to mount.



Products

Type	Number of beams	Protected area height [mm]	Order no.
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Protected area width 0...4 m / 3...12 m

	2	510	OY511S
	3	810	OY512S
	4	910	OY513S

Common technical data

Operating voltage	[V DC]	19.2...28.8 (SELV)
Current rating	[mA]	2 x 300
Current consumption	transmitter [mA] receiver [mA]	42 84
Outputs (OSSDs)		2 x PNP
Ambient temperature	[°C]	-30...55
Protection rating, protection class		IP 65 / IP 67 III
Connection	transmitter receiver	M12, 5-pole M12, 12-pole
Max. connection length	[m]	100

Safety category

IEC 61496-1: 2012 / IEC 61496-2: 2013

IEC 62061: 2005/A2: 2015





EN ISO 13849-1: 2015

IEC 61508: 2010





Type 4
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Type	Description	Order no.
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Muting arm sets

	Crossbeam muting with 2 through-beam sensors	EY5010
	Crossbeam muting with 2 crossbeam multi-beam light barriers	EY5020
	Sequential muting with 4 parallel retro-reflective sensors	EY5011
	Sequential muting with 4 parallel multi-beam light barriers	EY5021


Bases

	2-beam unit (510 mm), 1 pcs.	EY5050
	3-beam unit (810 mm), 1 pcs.	EY5051
	4-beam unit (910 mm), 1 pcs.	EY5052
	Base, suitable for floor mounting with vibration damping	EY2005


Accessories

Type	Description	Order no.
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Safety relay

	Safety relay with potential-free output contacts	G1501S
	Safety relay with semiconductor outputs	G1503S


AS-i safety monitor

	programmable AS-i safety monitor	AC041S
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Connection technology, receiver connection cable

	5 m, 12-pole	E12502
	10 m, 12-pole	E12503
	15 m, 12-pole	E12504

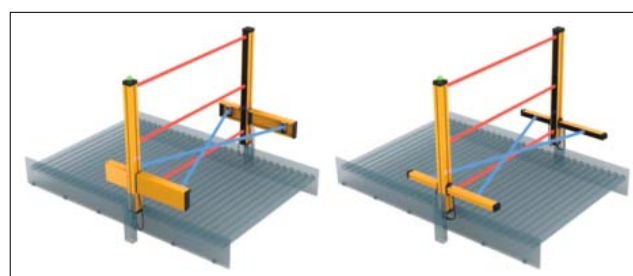
Connection technology, transmitter connection cable

	5 m, 5-pole	EVC071
	10 m, 5-pole	EVC072
	15 m, 5-pole	EVC197

T muting for goods to be passed in or out

2 photoelectric sensors positioned crosswise

Both sensors must be interrupted simultaneously. The goods should therefore have an appropriate width and be positioned in the centre.



4 photoelectric sensors positioned in parallel

The sensors must be interrupted according to a predetermined sequence. The goods should be of a sufficient length to ensure that all 4 sensors are temporarily interrupted. Their width and position do not matter.

