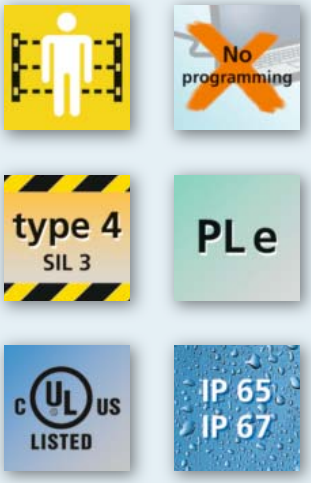
All in one unit: light grid with integrated muting unit

Safety light grids

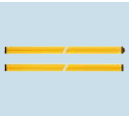
- **Easy connection of the muting sensors directly to the safety light grid**
- **Muting arms with pre-mounted sensors for rapid set-up**
- **Parallel or crossbeam muting version for detection of variable object sizes**
- **Integrated status light**
- **User-friendly configuration via hardware wiring**



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.
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 SILCL 3 Category 4, PLe SIL 3

Type	Description	Order no.
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**

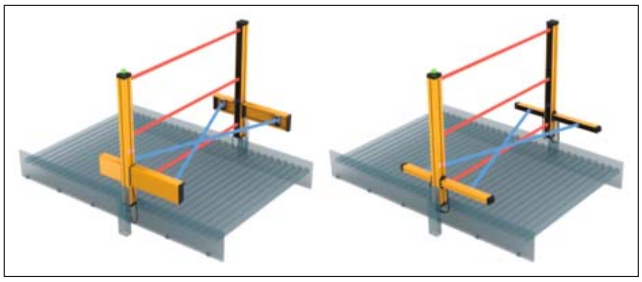
Accessories

Type	Description	Order no.
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**
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.