product news



New light curtain takes centre stage.



Certified safety

The safety light curtains and light grids have been developed in accordance with the current standards and certified by TÜV Süd. They meet the requirements type 2 / SIL2 or type 4 / SIL3. So you are on the safe side if you need primary guarding or access prevention.

Variants

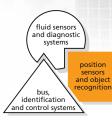
These light curtains are available for protected area heights of 160 mm to 1510 mm in intervals of 150 mm. The resolution (detection capacity) is selectable between 30, 40, 50 or 90 mm. The light grids are available in 2-, 3- or 4-beam version. They all have one thing in common: the very small housing dimensions of only 28 x 30 mm.



- Type 2 and type 4 safety light curtains to IEC 61496.
- Now with SIL to IEC 61508 and PL to ISO 13849.
- Can be installed without dead band. Mounting accessories supplied with the units.
- Ranges selectable on the unit: 0...4 m or 3...12 m.
- Easy to connect via the tried and tested M12 connector (5- or 8-pin).









Applications: access limitations and primary guarding, robot cells, pick-and-place machines, production lines in industrial automation.

Safety light curtains

Type 2 SIL2					Protected a [m		:			
Resolution / detection capacity	160	310	460	610	760	910	1060	1210	1360	1510
[mm]	Applicatio	on: hand a	nd operato	r protectio	n · protect	ed area wi	dth 04 m	/ 312 m		
30	OY031S	OY0325	OY033S	OY034S	OY0355	OY0365	OY0375	OY0385	OY0395	OY0405
40	OY0515	OY052S	OY053S	OY054S	OY055S	OY0565	OY0575	OY0585	OY0595	OY0605
	Applicatio	on: operat	or protecti	on · protec	ted area w	idth 04 n	1 / <mark>312 m</mark>			
50		OY072S	OY073S	OY074S	OY0755	OY076S	OY077S	OY078S	OY079S	OY080S
90				OY0945	OY0955	OY0965	OY0975	OY0985	OY0995	OY1005
Type 4 SIL3					Protected a [m		:			
Resolution /	160	310	460	610	760	910	1060	1210	1360	1510
detection capacity [mm]	Applicatio	on: hand a	nd operato	r protectio	n · protect	ed area wi	dth 04 m	/ 312 m		
30	OY0415	OY0425	OY043S	OY044S	OY045S	OY046S	OY047S	OY048S	OY0495	OY050S
40	OY0615	OY0625	OY063S	OY0645	OY0655	OY0665	OY0675	OY0685	OY0695	OY0705
	Application: operator protection · protected area width 04 m / 312 m									
50		OY0825	OY083S	OY084S	OY0855	OY086S	OY0875	OY088S	OY0895	OY090S
90				OY104S	OY1055	OY1065	OY1075	OY1085	OY1095	OY1105

Safety light grid

Application	Number of beams	Distance between beams [mm]	Total height [mm]	Response time [ms]	Order no.
Type 2 / SIL2 · protected a	area width 04 m / 31	2 m			
Operator protection	2	500	653	2.5	OY1115
Operator protection	3	400	953	3	OY1125
Operator protection	4	300	1053	3	OY1135
Type 4 / SIL3 · protected a	area width 04 m / 31	2 m			
Operator protection	2	500	653	2.5	OY114S
Operator protection	3	400	953	3	OY1155
Operator protection	4	300	1053	3	OY1165

Easy installation

Via the T-slot over the whole length on the back the units are easy to mount. Angle brackets are supplied with each unit and do not have to be ordered separately. The units can be installed vertically or horizontally and without dead band on one side.

Easy wiring

The units are configured via the pin connection of the 5or 8-pin M12 connector. To do so, you need no PC or software. Functions such as EDM (External Device Monitoring), restart or external muting (safety relay G2001S) can be implemented.

Common technical data

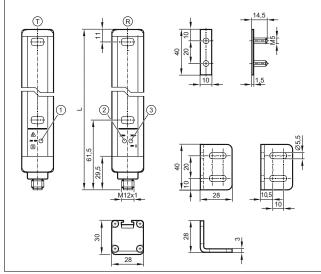
Operating voltage	[V]	19.228.8
Current rating	[mA]	2 x 400
Current consumption	on [mA] Transmitter Receiver	42 83
Safety outputs (OSS	Ds)	2 x PNP
Operating temperat	ure [°C]	-1055
Protection		IP 65, IP 67
Dimensions (W x D)	[mm]	28 x 30
Connection max. cable length	[m]	M12 connector 100
Safety category	IEC 61496-1: 2004 IEC 61496-2: 2006 IEC 61508: 1998 ISO 13849-1: 2006	type 2 / type 4 SIL 2 / SIL 3 PL d / PL e



Accessories

Туре	Description	Order no.
6	Vibration damper for fixing, set of 4 pcs., rubber, galvanised metal	EY3001
A	Vibration damper for fixing, set of 6 pcs., rubber, galvanised metal	EY3002
	Laser adjustment aid for light curtains, visible red light 650 nm	EY3099

Dimensions



T: transmitter, R: receiver 1) LED 3-colour, 2) LED, 3) LED 2-colour



Connectors and splitter boxes

Туре	Description	Order no.
5	Socket, M12, 5 m, 8-pin, PUR	E12166*
	Socket, M12, 10 m, 8-pin, PUR	E12167*
~	Socket, M12, 5 m, 8-pin, PUR	E12168*
	Socket, M12, 10 m, 8-pin, PUR	E12169*
3	Socket, M12, 2 m, 5-pin, PUR	EVC070
	Socket, M12, 5 m, 5-pin, PUR	EVC071
	Socket, M12, 10 m, 5-pin, PUR	EVC072
	Socket, M12, 2 m, 5-pin, PUR	EVC073
	Socket, M12, 5 m, 5-pin, PUR	EVC074
	Socket, M12, 10 m, 5-pin, PUR	EVC075

* Pin connection of the ifm sockets

Pin	Colour	Name	Туре
1	white	OSSD1	Output
2	brown	24 V DC	-
3	green	OSSD2	Output
4	yellow	K1_K2 / Restart	Input
5	grey	SEL_A	Input
6	pink	SEL_B	Input
7	blue	0 V DC	-
8	red	FE	-

Corner mirror

Description	Order no.
Corner mirror, length 250 mm, with angle bracket, aluminium, galvanised metal	EY1001
Corner mirror, length 400 mm, with angle bracket, aluminium, galvanised metal	EY1002
Corner mirror, length 540 mm, with angle bracket, aluminium, galvanised metal	EY1003
Corner mirror, length 715 mm, with angle bracket, aluminium, galvanised metal	EY1004
Corner mirror, length 885 mm, with angle bracket, aluminium, galvanised metal	EY1005
Corner mirror, length 1060 mm, with angle bracket, aluminium, galvanised metal	EY1006
Corner mirror, length 1230 mm, with angle bracket, aluminium, galvanised metal	EY1007
Corner mirror, length 1400 mm, with angle bracket, aluminium, galvanised metal	EY1008
Corner mirror, length 1450 mm, with angle bracket, aluminium, galvanised metal	EY1009
Corner mirror, length 1600 mm, with angle bracket, aluminium, galvanised metal	EY1010







Evaluation unit

Multifunctional with the advantage on your side

The safety relay G1501S provides different connection possibilities for safety light curtains, fail-safe inductive sensors or other ESPEs.

The safety relay meets the highest requirement with SIL 3 (IEC 61508).

"Monitored" or "automatic start" are only some of the numerous functions.

The safety relay G2001S is available for external muting. You use AS-i safety at work? ifm electronic has a systematic solution for you.

Be on the safe side with the fail-safe photoelectric and inductive sensors as well as safety relays.

AS-i bus system

Туре	Description	Order no.
	Safe AS-i input module, 2 OSSD inputs via M12 connector	AC0075
	Flat cable lower part, yellow/black	AC5003

Type Description Order no. Sate of 5 COMBIC ON terminals		Туре	Description	Order no.
Type Description Order no. Set of 5 COMBICON terminals, only for the safety relay G1501S E1192			Safety relay, multifunctional, 2 relay outputs, without terminals	G1501S
Accessories Type Description Order no. Set of 5 COMBICON terminals, only for the safety relay G1501S E1192			Safety relay, 2 relay outputs, muting function	G2001S
Type Description Order no. Set of 5 COMBICON terminals, only for the safety relay G1501S E1192	Accessories			
Set of 5 COMBICON terminals, only for the safety relay G1501S	Туре	Descript	tion	Order no.
	🥶 🗣 👼	Set of 5 COMBICON te only for the safety relay	erminals, y G1501S	E11929
ifm electronic – גוסצה לס אסמן				

Туре	Description	Order no.
🥪 🔌 😹	Set of 5 COMBICON terminals, only for the safety relay G1501S	E11929