



IP69K Safety Light Curtains and Light Grids



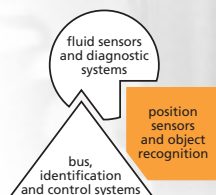
ifm introduces a new line of safety light curtains and light grids that are rated IP69K for food and beverage applications.

ifm's safety light curtains and grids can provide a protective optical barrier between plant personnel and unsafe equipment and dangerous areas. The curtains and grids can be used for perimeter guarding, access prevention and point-of-operation guarding.

Housed in a robust PMMA transparent tubing, ifm's safety light curtains and grids carry an enclosure rating of IP69K and are resistant to high pressure cleaning and steam.

- A heater element coupled with sealing O-rings and a vent help to prevent moisture build-up inside the tubing
- Highly-visible LEDs provide status, setup and troubleshooting indication
- Mounting is simple using the integrated tabs
- Light curtains are shipped fully assembled, bringing down total installation costs

For application flexibility, safety light curtains are available with 14 mm or 30 mm resolution and light grids with 2-, 3- or 4-beams.

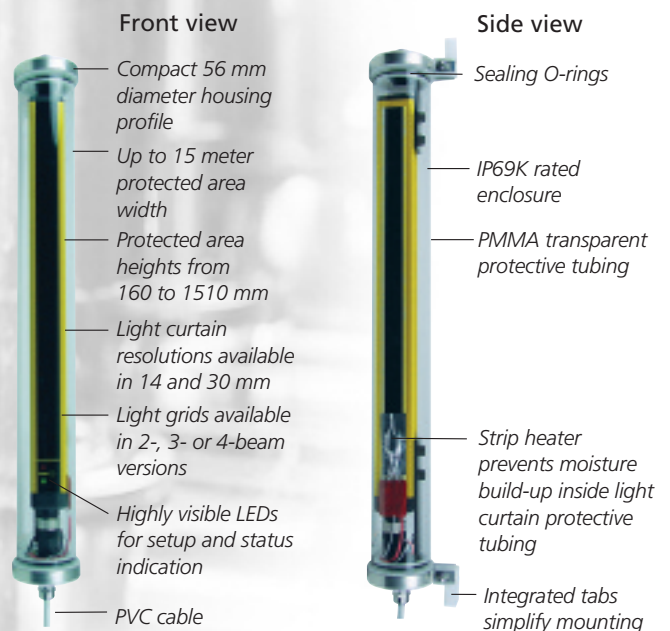


Sanitary and robust design for food and beverage applications

- Safety light curtains and grids with integrated IP69K enclosure
- Resistant to steam and high pressure cleanings
- SIL to IEC 61508 and PL to ISO 13849
- Both Type 2 / SIL 2 and Type 4 / SIL 3 versions available
- Up to 15 meter protected width



Compact housing, robust design





IP69K safety light curtains and grids

Safety light curtains

Resolution	Protected area height	Part no. (pair)	List price (USD)
Protected area width: 0...2 m / 1...5 m		Type 4 / SIL 3	
14 mm	460 mm	OY 4035	\$2,564.00
	760 mm	OY 4055	\$3,247.00
	1060 mm	OY 4075	\$3,936.00
Protected area width: 0...3 m / 2...10 m		Type 2 / SIL 2	
30 mm	160 mm	OY 4315	\$1,300.00
	310 mm	OY 4325	\$1,434.00
	460 mm	OY 4335	\$1,568.00
	610 mm	OY 4345	\$1,702.00
	760 mm	OY 4355	\$1,825.00
	910 mm	OY 4365	\$2,031.00
	1060 mm	OY 4375	\$2,289.00
	1210 mm	OY 4385	\$2,546.00
	1360 mm	OY 4395	\$2,752.00
Protected area width: 0...7 m / 3...15 m		Type 4 / SIL 3	
30 mm	160 mm	OY 4415	\$1,795.00
	310 mm	OY 4425	\$2,021.00
	460 mm	OY 4435	\$2,227.00
	610 mm	OY 4445	\$2,443.00
	760 mm	OY 4455	\$2,649.00
	910 mm	OY 4465	\$2,958.00
	1060 mm	OY 4475	\$3,216.00
	1210 mm	OY 4485	\$3,473.00
	1360 mm	OY 4495	\$3,679.00
		OY 4505	\$3,988.00

Technical Specs

Operating voltage:	19.2...28.8 VDC
Current rating:	2 x 400 mA
Current consumption:	Transmitter 42 mA; Transmitter heater ≤417 mA; Receiver 83 mA; Receiver heater ≤417 mA
Safety outputs (OSSDs):	2 x PNP
Operating temperature:	-4...131 °F (-20...55 °C)
Protection:	IP 69K
Dimensions (D):	56 mm
Connection:	Transmitter: 8-wire PVC cable, 15 m Receiver: 10-wire PVC cable, 15 m
Max. cable length:	100 m
Safety category:	
IEC 61496-1	Type 2 / Type 4
IEC 61508	SIL 2 / SIL 3
IEC 62061	SILcl 2 / SILcl 3
EN ISO 13849-1	PL d / PL e





Safety light grids

Number of beams	Distance between beams	Protected area height	Part no. (pair)	List price (USD)
Protected area width: 0...3 m / 2...10 m		Type 2 / SIL 2		
2	500 mm	510 mm	OY 4115	\$1,606.00
3	400 mm	810 mm	OY 4125	\$1,658.00
4	300 mm	910 mm	OY 4135	\$1,751.00
Protected area width: 0...7 m / 3...15 m		Type 4 / SIL 3		
2	500 mm	510 mm	OY 4215	\$1,972.00
3	400 mm	810 mm	OY 4225	\$2,137.00
4	300 mm	910 mm	OY 4235	\$2,338.00

Safety relays

ifm offers two types of safety relays that interface with light curtains and grids. The safety relays G150xS provide different output possibilities for safety light curtains and grids, fail-safe inductive sensors or other ESPEs. The safety relay G2001S is available for external muting applications with light curtains and grids only. The safety relays meet the highest requirement with SIL 3 (IEC 61508).

Relay selection

Type	Description	Part no.	List price (USD)
	Safety relay, multifunctional, 2 safe N.O. relay outputs	G1501S	\$166.00
	Safety relay, multifunctional, 3 safe N.O. relay outputs, without time delay 2 safe N.O. relay outputs, with time delay	G1502S	\$268.00
	Safety relay, multifunctional, 2 safe N.O. solid state PNP outputs	G1503S	\$155.00
	Safety relay, 2 relay outputs, muting function	G2001S	\$474.00