



SG4-H

IP69K STAINLESS STEEL SAFETY LIGHT CURTAIN FOR PHARMA



Finger protection in applications where high hygienic requirements need frequent cleanings with highly corrosive detergents. The first safety light curtain with stainless steel housing and glass.

- Stainless steel housing
- Hygienic design
- No need for additional protection tubes
- IP69K full protection
- Housing: AISI316L stainless steel with roughness under 0.8 micron
- Window: Optical glass
- Rounded surfaces with no gaps or sharp edges
- No labels: All information laser marked
- Maximum safety: Type 4, finger resolution
- Three protection heights: 150, 300 and 450 mm
- 50 x 30 mm profile
- 4 LEDs and 7-segment display alignment aiding



CODE DESCRIPTION

SG 4 H - 14 - 015 - 00 - X - G

series	SG	IP69K Stainless steel type 4 safety light curtain for pharma industry
type	4	Type 4
resolution	14	Finger: 14 mm
monitored height	015	150 mm
	030	300 mm
	045	450 mm
functionality	X	Basic (automatic restart)
mechanical version	B	Mechanical fixing only at bottom
	G	Top-bottom fixing

SG4-H TECHNICAL SPECIFICATIONS

SAFETY LIGHT CURTAINS

SG4-H14-***-00-X-*



GENERAL DATA

Operating principle	Emitter + Receiver
Detection capability	14 mm

MONITORED AREA

Nominal sensing distance	0.2 ... 6 m
Controlled height	150 ... 450 mm

EMISSION DATA

Emission	Infrared LED (850nm)
Effective beam angle	$\leq \pm 2.5^\circ$

FUNCTIONS

Available functions	Automatic Restart, IP69K Hygienic Design
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SAFETY PARAMETERS

Type	4
PL	e
SIL	SIL 3 (IEC 61508)

INPUT/OUTPUT

Output type	2 x PNP (OSSD safety output)
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ELECTRICAL DATA

Supply voltage	24 Vdc $\pm 20\%$
Power consumption - Emitter	≤ 2.5 W
Power consumption - Receiver	≤ 3.5 W without load
Maximum DC load current	500 mA each output

MECHANICAL DATA

Dimensions	33 x 53 x (290.6 ... 602.3) mm
Material	Stainless steel AISI 316L / Glass
Connections	M12-4 poles (emitter) M12-5 poles (receiver)
Length of cables (Power)	≤ 50 m

CERTIFICATIONS

Shocks	16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)
Vibrations	Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1 octave/min (EN 60068-2-6)
Electromagnetic compatibility	IEC EN 60947-5-2

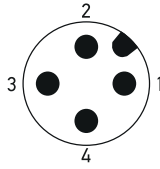
ENVIRONMENTAL DATA

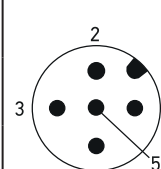
Operating Temperature	-10 ... 55 °C
Storage temperature max.	-25 ... 70 °C
Mechanical Protection	IP65 / IP69K
Humidity	15 ... 95 % no condensation
Ambient light immunity	According to IEC 61496-2

AVAILABLE MODELS

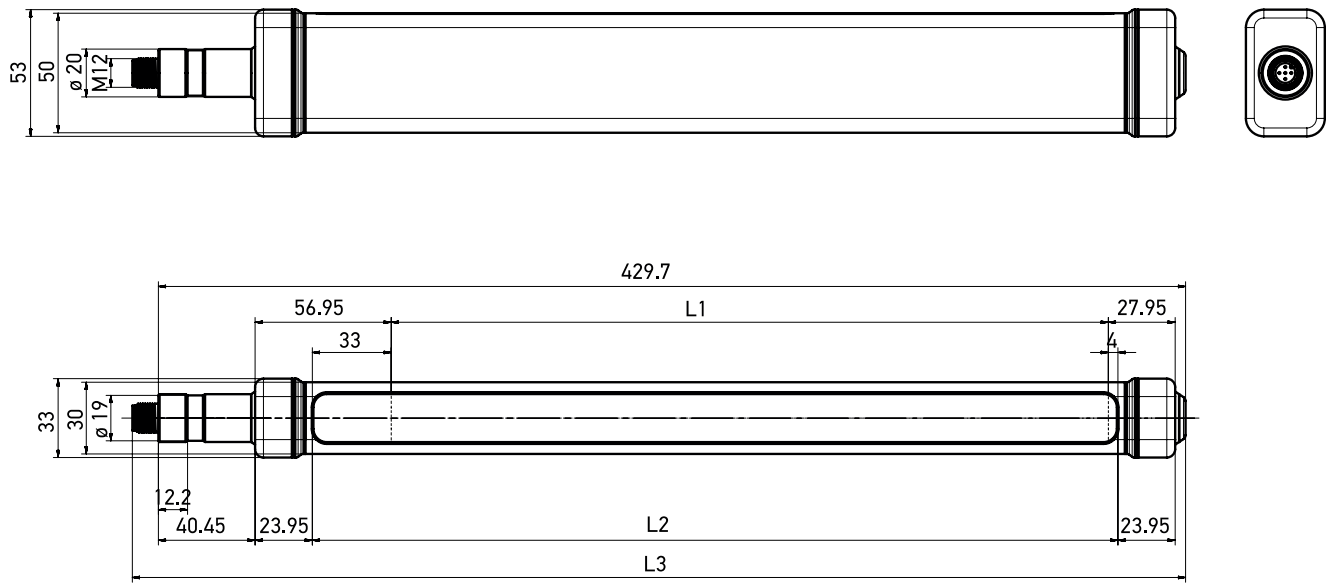
Type	Detection capability	Nominal sensing distance	Controlled height	Beams number	Response time	Model
4	Finger protection res. 14 14 mm	0.2 ... 6 m	150 mm	16	11 ms	SG4-H14-015-00-X-B (957901760)
						SG4-H14-015-00-X-G (957902330)
			300 mm	32	15 ms	SG4-H14-030-00-X-G (957901720)
						SG4-H14-030-00-X-B (957901700)
			450 mm	48	18 ms	SG4-H14-045-00-X-B (957901710)
						SG4-H14-045-00-X-G (957901730)

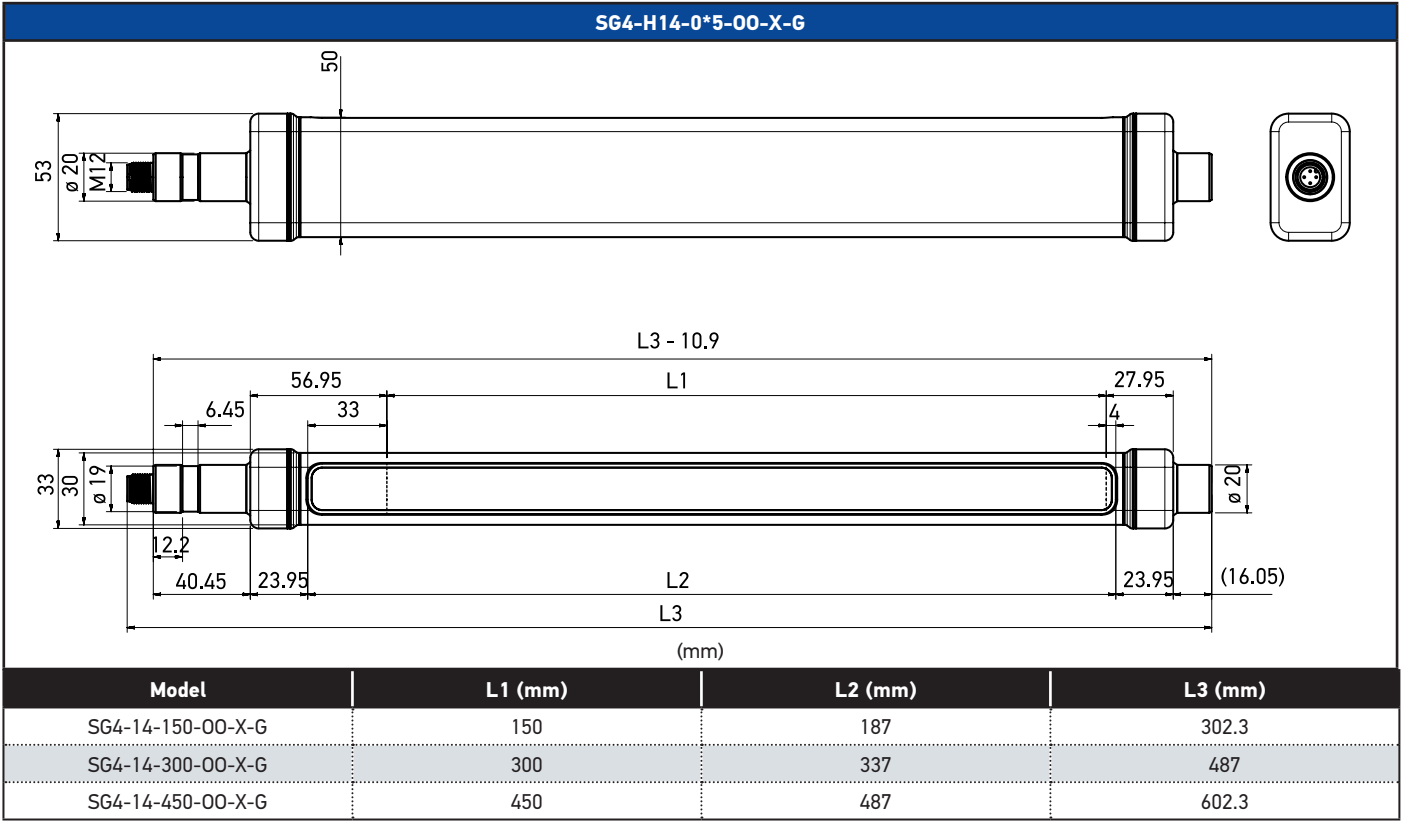
CONNECTIONS

SG4-H14-0**-**-* (Emitter)			
 MALE M12 4 pins Safety	1	Brown	24 Vdc
	2	White	NOT USED
	3	Blue	0 V
	4	Black	NOT USED

SG4-H14-0**-**-* (Receiver)			
 MALE M12 5 pins Safety	1	Brown	24 Vdc
	2	White	OSSD1
	3	Blue	0 V
	4	Black	OSSD2
	5	Gray	NOT USED

MECHANICAL DRAWINGS

SG4-H14-0*5-00-X-B			
			
Model	L1 (mm)	L2 (mm)	L3 (mm)
SG4-14-150-00-X-B	150	187	290.6
SG4-14-300-00-X-B	300	337	440.6
SG4-14-450-00-X-B	450	487	590.6



ACCESSORIES TO BE ORDERED SEPARATELY

	Model	Description	Article code
Cables	CS-A1-02-U-03	Cable M12 4 poles axial female unshielded 3m UL 2464	95ASE1120
	CS-A1-02-U-05	Cable M12 4 poles axial female unshielded 5m UL 2464	95ASE1130
	CS-A1-02-U-10	Cable M12 4 poles axial female unshielded 10m UL 2464	95ASE1140
	CS-A1-02-U-15	Cable M12 4 poles axial female unshielded 15m UL 2464	95ASE1150
	CS-A1-02-U-25	Cable M12 4 poles axial female unshielded 25m UL 2464	95ASE1160
Mirrors	SG-DM-1900	Deviating mirror for light curtains h=1900mm	95ASE1720
	SG-DM-150	Deviating mirror for light curtains h=150mm	95ASE1670
	SG-DM-600	Deviating mirror for light curtains h=600mm	95ASE1680
	SG-DM-900	Deviating mirror for light curtains h=900mm	95ASE1690
	SG-DM-1200	Deviating mirror for light curtains h=1200mm	95ASE1700
	SG-DM-1650	Deviating mirror for light curtains h=1650mm	95ASE1710
Safety units	SE-SR2	Safety unit 3NO + 1NC outputs	95ACC6170
Test pieces	TP-14	Safety light curtains test piece ø 14 mm	95ACC1630
	TP-14 (30 pcs)	Safety light curtains test piece ø 14 mm Box 30 pcs	95ASE2810