



SG4-H

957901730

SG4-H14-045-OO-X-G

**STAINLESS STEEL TYPE 4 SAFETY LIGHT CURTAIN FOR
PHARMA INDUSTRY**

OVERVIEW

- 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

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,2 ... 6 m
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Resolution	14mm
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controlled height	450 mm
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number of rays	48
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Sensitivity adjustment	n/a
Effective Aperture Angle	$\leq \pm 2,5^\circ$

Application

Function Principle	Emitter + Receiver
Available functions	Automatic Restart, IP69K Hygienic Design
Description	Hygienic design top-bottom mount
Functions	Finger protection res. 14 mm

Safety parameters

Type	Type 4 safety light curtain (A)
SIL	3
SILCL	3
PL	e
MTTFd	444 years
Dcavg	98,80%
SFF	99,30%

Outputs

Output type	2 x PNP-NO (OSSD safety output)
Response time	18 ms

Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
Load current	$\leq$ 500mA each output
Emission	Infrared LED (850 nm wavelength)
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	$\leq$ 3,5W (no load)
Power Consumption - Emitter	$\leq$ 2,5W
Cabel Length (Power Supply/Output)	$\leq$ 50m

Mechanical data

Dimensions	30x53x602
Material	Stainless steel AISI 316L / Glass
Connections	M12-4 poles (emitter) M12-5 poles (receiver)
Storage temperature	-25...+ 70°C
Vibrations	Width 0.35 mm, frequency 10 ... 55Hz; 20 sweep per axis, 1octave/min (EN 60068-2-6)
Shocks	16 ms (10 G) 1,000 shocks per axis (EN 60068-2-29)

Test/Approvals

EMC compatibility	According to 2014/30/EU Directive
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Generical Data

Dimensions	33x53x602,3 mm
Operating Temperature	-10...+55°C
Humidity	15 ... 95 % (no condensation)
Mechanical Protection	IP65, IP69K
UNASSIGNED	
Disegno 2D PDF	2,64E-09

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