



SH4 Base

957920002

SH4-14-0450-B-5

TYPE 4 SAFETY LIGHT CURTAIN WITH BASIC
FUNCTIONALITY

OVERVIEW

- Finger protection (14 mm)
- Improved operating range: 10 m
- Basic functions: alignment, automatic restart
- Zero dead zone
- Extended monitored height up to 2250 mm
- Compact profile (35 x 40 mm), common to all SH4 line
- Installation eased by LEDs indications of beam intensity
- Optical synchronization with 2 beams
- IP67 Protection
- -30 ... +55 °C Operating temperature
- Complete couple and angular bracket included in the package
- Alignment eased by integrated laser (finger,hand) or LED (body) aimer
- Pigtailed with M12 connectors with standard not shielded cables

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0.2 ... 10 m
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Resolution	14 mm
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controlled height	450 mm
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number of rays	45
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Effective Aperture Angle	$\leq \pm 2.5^{\circ}$
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Application

Function Principle	Emitter + Receiver
Available functions	Automatic Restart
Description	Compact no-dead-zone BASIC
Functions	Finger protection res. 14 mm

Safety parameters

Type	Type 4 safety light curtain (A)
SIL	3
SILCL	3
PL	e
MTTFd	43 years
SFF	99,50%

Outputs

Output type	2 x PNP-NO (OSSD safety output)
Response time	10 ms

Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
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Load current	≤ 250mA each output
Emission	Infrared LED (850 nm wavelength)
Interference to external light	According to IEC 61496-2
Power Consumption - Receiver	≤ 4W (no load)
Power Consumption - Emitter	≤ 3,5W
Capacitive Load	≤ 1μF
Cabel Length (Power Supply/Output)	≤ 30m

Mechanical data

Material	Painted aluminum / MAKROLON AR 7099 Clear PC / PBT
Connections	M12-5 poles pigtail (emitter) M12-5 poles pigtail (receiver)
Storage temperature	-30 ...+70 °C
Vibrations	10 mm / 3 g, 5 ... 150 Hz frequency (EN 60068-2-6 / Class 3M7 IEC TR 60721-4-3)
Shocks	25 g x 6 ms x 600 (EN 60068-2-27 / Class 3M7 IEC TR 60721-4-3)

Test/Approvals

Approvals	CE, cULus, TÜV, UKCA
EMC compatibility	According to 2014/30/EU Directive
Shocks and vibrations	10 mm / 3g, 5 to 150 Hz frequency (EN 60068-2-6 / Class 3M7 IEC TR 60721-4-3); 25g x 6 ms x 600 (EN 60068-2-27 / Class 3M7 IEC TR 60721-4-3)

Accessories

Supplied Accessories	Standard "L" Mounting Brackets: 4 pcs kit
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Accessories to be ordered separately	Top-bottom rotating mounting bracket ST-K4ROT-SH
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Generical Data

Dimensions	35x40x459 mm
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Operating Temperature	-30...+55°C
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Humidity	15 ... 95 % (no condensation)
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Mechanical Protection	IP65, IP 67 (EN 60529)
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UNASSIGNED

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