



SH4 Standard

957920025

SH4-14-1800-S-8

TYPE 4 SAFETY LIGHT CURTAIN WITH MANUAL RESTART
AND EDM

OVERVIEW

- Finger protection (14 mm)
- Improved operating range: 10 m
- Basic functions: alignment, automatic restart
- Standard functions: manual restart, EDM
- 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
- Pigtailed with M12 connectors with standard not shielded cables

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0.2 ... 10 m
Resolution	14 mm
controlled height	1800 mm
number of rays	180

Effective Aperture Angle	≤ ±2.5°
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Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM
Description	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)
Functions	M12-5 poles pigtail (emitter) M12-8 poles pigtail (receiver)

Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	0.2 ... 10 m
SILCL	-30 ...+70 °C
PL	24 Vdc ± 20%
MTTFd	Emitter + Receiver
SFF	14 mm

Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	24 ms

Electrical data

Operating Voltage	24 Vdc ± 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)	CE, cULus, TÜV, UKCA

Mechanical data

Material	≤ 250mA each output
Connections	M12-5 poles pigtail (emitter) M12-8 poles pigtail (receiver)
Storage temperature	-30 ...+70 °C
Vibrations	300 mm
Shocks	30

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: 6 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	Infrared LED (850 nm wavelength)
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Operating Temperature	According to IEC 61496-2
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Humidity	9 ms
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Mechanical Protection	Top-bottom rotating mounting bracket ST-K4ROT-SH
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UNASSIGNED

Disegno 2D PDF	2 x PNP-NO (OSSD safety output) with EDM
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Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

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