



SH4 Standard

957920134

SH4-4-1200-S-8

TYPE 4 SAFETY LIGHT CURTAIN WITH MANUAL RESTART
AND EDM

OVERVIEW

- Body protection (2, 3 or 4 beams)
- Improved operating range: 70 m
- Basic functions: alignment, automatic restart
- Standard functions: manual restart, EDM
- Monitored height: 500, 800, 900 and 1200 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
- Zero dead zone
- 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	0.5 ... 15 (default); 5 ... 70 (selectable long range)
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Resolution	400 mm
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controlled height	1200 mm
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number of rays	4
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Effective Aperture Angle	≤ ±2.5°
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Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM
Description	Compact no-dead-zone STANDARD
Functions	Body protection 4 beams

Safety parameters

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

Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	15 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)	≤ 30m Receiver ; ≤ 50m Emitter

Mechanical data

Material	Painted aluminum / MAKROLON AR 7099 Clear PC / PBT
Connections	M12-5 poles pigtail (emitter) M12-8 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: 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	35x40x1374 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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**date of
printing**
10/08/2026
08:40:52