



SH4 Standard

957920083

SH4-30-2100-S-8

TYPE 4 SAFETY LIGHT CURTAIN WITH MANUAL RESTART
AND EDM

OVERVIEW

- Hand protection (30 mm)
- Improved operating range: 20m (hand)
- Basic functions: alignment, automatic restart
- Standard functions: manual restart, EDM
- 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
- 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	0.2 ... 20 m
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Resolution	30 mm
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controlled height	2100 mm
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number of rays	84
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Effective Aperture Angle	$\leq \pm 2.5^\circ$
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Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM
Description	Compact no-dead-zone STANDARD
Functions	Finger protection res. 30 mm

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	16 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) M12-8 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
Accessories to be ordered separately	Top-bottom rotating mounting bracket ST-K4ROT-SH

Generical Data

Integrated aimer	Integrated laser pointer
Dimensions	35x40x2109 mm
Operating Temperature	-30...+55°C
Humidity	15 ... 95 % (no condensation)
Mechanical Protection	IP65, IP 67 (EN 60529)

UNASSIGNED

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