



# SH4 Advanced

957920152

SH4-14-1050-A-12

TYPE 4 SAFETY LIGHT CURTAIN FULLY PROGRAMMABLE  
WITH SH4 DESIGNER WITH WI-FI

## OVERVIEW

- Finger protection (14 mm)
- Improved operating range: 10 m
- Basic functions: alignment, automatic restart
- Standard functions: manual restart, EDM
- Standard Muting functions: 2-signals mono and bidirectional muting, override
- Advanced functions: partial muting, dynamic partial muting, 4-signals muting, reduced resolution, multiple fixed or floating blanking zones
- Innovative wireless monitoring and configuration system
- 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
- Simultaneous muting and blanking
- Complete couple and angular bracket included in the package
- Anti-interference codes
- Alignment eased by integrated laser
- Integrated LED muting indication
- Muting accessories available with prewired and preinstalled muting sensors
- Cascadable with SH4 CASCADE up to three units
- Pigtailed with M12 connectors with standard not shielded cables

## TECHNICAL FEATURES

Detection properties

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Nominal sensing distance	0.2 ... 10 m
Resolution	14 mm
controlled height	1050 mm
number of rays	105
Effective Aperture Angle	$\leq \pm 2.5^\circ$

### Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM, L/T 2-signals Muting, T 4-signals Muting, Partial Muting, Muting Filter, Override, Blanking, Wi-fi programmability
Description	Compact no-dead-zone ADVANCED Wi-Fi Programmable
Muting lamp output	Incandescent lamp or LED
Functions	Finger protection res. 14 mm Wi-Fi programmable

### Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PL	e
PFHd	8,40E-09
MTTFd	43 years

SFF	99,50%
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#### Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
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Response time	16 ms
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#### Electrical data

Operating Voltage	24 Vdc $\pm$ 20%
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Load current	$\leq$ 250mA each output
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Emission	Infrared LED (850 nm wavelength)
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Interference to external light	According to IEC 61496-2
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Power Consumption - Receiver	$\leq$ 4W (no load)
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Power Consumption - Emitter	$\leq$ 3,5W
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Capacitive Load	$\leq$ 1 $\mu$ F
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Cabel Length (Power Supply/Output)	$\leq$ 30 m
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Cable Length for Master Slave Interconnections	$\leq$ 10 m
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#### Mechanical data

Connections	M12-5 poles pigtail (emitter) M12-12 poles pigtail (receiver)
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Storage temperature	-30 ...+70 °C
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Material	Painted aluminum / MAKROLON AR 7099 Clear PC / PBT
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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
Accessories to be ordered separately	Top-bottom rotating mounting bracket ST-K4ROT-SH

#### Generical Data

Network Interface	Wi-Fi Ethernet TCP/IP
Dimensions	35x40x1059 mm
Operating Temperature	-30...+55°C
Humidity	15 ... 95 % (no condensation)
Mechanical Protection	IP65, IP 67 (EN 60529)

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