



# SH4 Active-Passive

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**SH4-2-0500-B-AP-5**

**TYPE 4 ACTIVE/PASSIVE SAFETY LIGHT CURTAIN WITH  
BASIC FUNCTIONALITY**

## OVERVIEW

- Type 4 safety light curtains with active/passive operating principle
- Passive side doesn't need to be wired
- Body protection with 500, 800, 900, 1200 mm controlled height
- Up to 8 m operating range (depending on model)
- Basic functions: alignment, automatic restart
- Compact profile (35 x 40 mm), common to all SH4 line
- Installation eased by LEDs indications of beam intensity
- IP67 Protection
- -30 ... +55 °C Operating temperature
- Complete couple and angular bracket included in the package
- Pigtails 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	300 mm
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number of rays	30
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Effective Aperture Angle	≤ ±2.5°
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Application

Function Principle	Emitter + Receiver
Available functions	Manual/Automatic Restart, EDM, L/T 2-signals Muting, Partial Muting, Muting Filter, Override
Description	Compact no-dead-zone STANDARD MUTING
Muting lamp output	Incandescent lamp or LED
Functions	Finger protection res. 14 mm muting

Safety parameters

Type	Type 4 safety light curtain (A/M)
SIL	3
SILCL	3
PFHd	8,40E-09
PL	e
MTTFd	43 years
SFF	99,50%

Outputs

Output type	2 x PNP-NO (OSSD safety output) with EDM
Response time	9 ms

## Electrical data

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

## 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
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EMC compatibility	According to 2014/30/EU Directive
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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)
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#### 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	35x40x309 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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