



SH4 Cascade

957920029

SH4-14-0300-C-5-5

TYPE 4 SAFETY LIGHT CURTAIN FOR SERIES
CONNECTION WITH SH4 STANDARD MUTING OR SH4
ADVANCED

OVERVIEW

- Cascade model, to be used with SH4 STANDARD MUTING or SH4 ADVANCED
- Finger protection (14 mm)
- Improved operating range: 10 m
- Basic functions: alignment, automatic restart
- 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
- Anti-interference codes
- Cascade cables up to 10 m

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
Effective Aperture Angle	$\leq \pm 2.5^\circ$

Application

Function Principle	Emitter + Receiver
Available functions	Cascade Slave Unit, to be used with SH4 STANDARD MUTING or SH4 ADVANCED
Description	Compact no-dead-zone CASCADE
Functions	Finger protection res. 14 mm slave

Safety parameters

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

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	≤ 4W (no load)
Power Consumption - Emitter	≤ 3,5W
Capacitive Load	≤ 1μF
Cabel Length (Power Supply/Output)	≤ 30 m
Cable Length for Master Slave Interconnections	≤ 10 m

Mechanical data

Material	Painted aluminum / MAKROLON AR 7099 Clear PC / PBT
Connections	M12-5 poles pigtail (emitter) M12-5 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: 4 pcs kit
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Accessories to be ordered separately

Top-bottom rotating mounting bracket ST-K4ROT-SH

Generical Data

Dimensions

35x40x309 mm

Operating Temperature

-30...+55°C

Humidity

15 ... 95 % (no condensation)

Mechanical Protection

IP65, IP 67 (EN 60529)

UNASSIGNED

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