



SH4 Base

957920001

SH4-14-0300-B-5

TYPE 4 SAFETY LIGHT CURTAIN WITH BASIC
FUNCTIONALITY

OVERVIEW

- Finger protection (14 mm)
- Improved operating range: 10 m
- Basic functions: alignment, automatic restart
- Zero dead zone
- 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
- Complete couple and angular bracket included in the package
- Alignment eased by integrated laser (finger,hand) or LED (body) aimer
- 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	$\leq \pm 2.5^\circ$
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Application

Function Principle	Emitter + Receiver
Available functions	Automatic Restart
Description	Compact no-dead-zone BASIC
Muting lamp output	Incandescent lamp or LED
Functions	Finger protection res. 14 mm

Safety parameters

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

Outputs

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

Response Time (Master + Slave)	$T_{\text{cascade}} [\text{ms}] = T_{\text{master}} + T_{\text{slave1}} + T_{\text{slave2}} + 1$
Response Time (Master + 2 Slave)	$T_{\text{cascade}} [\text{ms}] = T_{\text{master}} + T_{\text{slave1}} + T_{\text{slave2}} - 1$
Tempo di Risposta (Muting function)	QUI

Electrical data

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

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
Accessories to be ordered separately	Top-bottom rotating mounting bracket ST-K4ROT-SH

Generical Data

Integrated aimer	Integrated laser pointer
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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