

SH4 Standard Muting

TYPE 4 SAFETY LIGHT CURTAIN WITH 2 SIGNALS MUTING CONFIGURABLE WITH DIP-SWITCHES



- Body protection (2, 3 or 4 beams)
- Improved operating range: 70 m
- Basic functions: alignment, automatic restart
- Standard functions: manual restart, EDM
- Monitored height: 500, 800, 900 and 1200 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

Detection properties

Nominal sensing distance	0.5 ... 15 (default); 5 ... 70 (selectable long range)
Resolution	500 mm
controlled height	500 mm
number of rays	2
Effective Aperture Angle	$\leq \pm 2.5^\circ$

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

Functions

Incandescent lamp or LED

Body protection 2 beams muting

Safety parameters

Type

Type 4 safety light curtain (A/M)

SIL

3

SILCL

3

PL

e

PFHd

2,62E-08

MTTFd

43 years

SFF

99,50%

Outputs

Output type

2 x PNP-NO (OSSD safety output) with EDM

Response time

12 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 μ F

Cabel Length (Power Supply/Output)

$\leq$ 30 m Receiver ; $\leq$ 50 m Emitter

Cable Length for Master Slave Interconnections

$\leq$ 10 m

Mechanical data

Connections

M12-5 poles pigtail (emitter) M12-8 poles pigtail (receiver)

Storage temperature

-30 ...+70 °C

Material

Painted aluminum / MAKROLON AR 7099 Clear PC / PBT

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

Dimensions

35x40x674 mm

Operating Temperature

-30...+55°C

Humidity

15 ... 95 % (no condensation)

Mechanical Protection

IP65, IP 67 (EN 60529)

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