



# SH4 Standard

957920084

SH4-30-2250-S-8

TYPE 4 SAFETY LIGHT CURTAIN WITH MANUAL RESTART  
AND EDM

## OVERVIEW

- Hand protection (30 mm)
- Improved operating range: 20m (hand)
- Basic functions: alignment, automatic restart
- Standard functions: manual restart, EDM
- 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
- Pigtailed with M12 connectors with standard not shielded cables

## TECHNICAL FEATURES

### Detection properties

|                          |              |
|--------------------------|--------------|
| Nominal sensing distance | 0.2 ... 20 m |
|--------------------------|--------------|

|            |       |
|------------|-------|
| Resolution | 30 mm |
|------------|-------|

|                   |         |
|-------------------|---------|
| controlled height | 2250 mm |
|-------------------|---------|

|                |    |
|----------------|----|
| number of rays | 90 |
|----------------|----|

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

Application

|                     |                               |
|---------------------|-------------------------------|
| Function Principle  | Emitter + Receiver            |
| Available functions | Manual/Automatic Restart, EDM |
| Description         | Compact no-dead-zone STANDARD |
| Functions           | Finger protection res. 30 mm  |

Safety parameters

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

Outputs

|               |                                          |
|---------------|------------------------------------------|
| Output type   | 2 x PNP-NO (OSSD safety output) with EDM |
| Response time | 17 ms                                    |

Electrical data

|                   |                  |
|-------------------|------------------|
| Operating Voltage | 24 Vdc $\pm$ 20% |
|-------------------|------------------|

|                                    |                                  |
|------------------------------------|----------------------------------|
| Load current                       | ≤ 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) | ≤ 30m                            |

**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                                                                                                                         |
| 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: 6 pcs kit |
|----------------------|-------------------------------------------|

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

#### Generical Data

|                  |                          |
|------------------|--------------------------|
| Integrated aimer | Integrated laser pointer |
|------------------|--------------------------|

|            |               |
|------------|---------------|
| Dimensions | 35x40x2259 mm |
|------------|---------------|

|                       |             |
|-----------------------|-------------|
| Operating Temperature | -30...+55°C |
|-----------------------|-------------|

|          |                               |
|----------|-------------------------------|
| Humidity | 15 ... 95 % (no condensation) |
|----------|-------------------------------|

|                       |                        |
|-----------------------|------------------------|
| Mechanical Protection | IP65, IP 67 (EN 60529) |
|-----------------------|------------------------|

#### UNASSIGNED

|                |          |
|----------------|----------|
| Disegno 2D PDF | 8,40E-09 |
|----------------|----------|

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