









## **Model Number**

### SLC-4/133

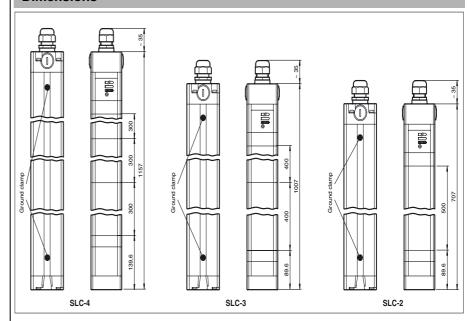
Safety light grid with integrated control unit

with 2 separate fail-safe semiconductor outputs

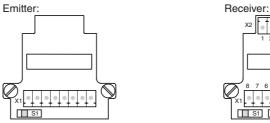
## **Features**

- ATEX-approval for zone 2 and zone 22
- · Sensing range up to 20 m
- · Beam spacing 300 mm
- Self-monitoring (type 4 according to IEC/EN 61496-1)
- Safety outputs OSSD, external status displays OSSD
- Start/Restart disable
- · 7-segment diagnostic display
- Pre-fault indication
- Degree of protection IP66

## **Dimensions**



## **Electrical connection**



terminal	emitter	receiver (relay output)	receiver (semiconductor output)
X1:1	Functional earth	Functional earth	Functional earth
X1:2		test (input)	Test (input)
X1:3		OSSD2.2 (output)	0 V OSSD
X1:4		OSSD1.2 (output)	24 V OSSD
X1:5		OSSD2.1 (output)	OSSD2 (output)
X1:6		OSSD1.1 (output)	OSSD1 (output)
X1:7	0 V AC/DC	0 V AC/DC	0 V DC
X1:8	24 V AC/DC	24 V AC/DC	24 V DC
X2:1		Start release (output)	Start release (output)
X2:2		Status OSSD (output)	Status OSSD (output)
X2:3	not placed on board	24 V reference potential for I/O	n. c.
X2:4	1	0 V reference potential for I/O	n. c.
x2:5	1	Startup readiness (input)	Startup readiness (input)

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#### Device category 3G (nA)

ATEX marking

Directive conformity

Standards

Installation, commissioning

#### Maintenance

#### Special conditions

Maximum permissible ambient temperature T<sub>Umax</sub>

Protection from mechanical danger

Protection of overvoltage

Protection from UV light

Electrostatic charge

Other conditions

### **Equipment protection level Dc**

Instruction

Details for use in hazardous areas

ATEX marking
Directive conformity

Standards

Installation, commissioning

## Maintenance

# Special conditions

Protection from mechanical danger

Protection of overvoltage

Protection from UV light

Electrostatic charge

#### Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist

. II 3 G Ex nAc op is IIC T4

94/9/EG

EN 60079-0:2009, EN 60079-15:2010, EN 60079-28:2007

Laws and/or regulations and standards governing the use or intended usage goal must be observed. By fitting a suitable external fixture, the connecting cable is secured against the transmission of rotational movements and tensile loading on the connections. After opening the enclosure (connection cap) and connecting the wires, but before mounting the connection cap, ensure the seal is correctly fitted and intact. Damaged seals are to be replaced.

No modifications must be undertaken on apparatus, which is operated in hazardous areas. Repairs to such apparatus are not permissible.

#### 55 °C (131 °F)

The cable and wire gland and end caps are to be protected from mechanical shock.

Precautions must be taken to prevent the rated voltage being exceeded by more than 40 % due to transient disturbances.

The sensor must be protected against harmful UV radiation. This can be achieved by using the sensor indoors.

The enclosure is to be grounded with help of the accompanying grounding terminal EC SLC EX via a wire with a cross section of 4 mm<sup>2</sup>.

Do not open or disconnect when energized! By fitting a suitable external fixture, the connecting cable is secured against the transmission of rotational movements and tensile loading on the connections. After opening the enclosure (connection cap) and connecting the wires, but before mounting the connection cap, ensure the seal is correctly fitted and intact. Damaged seals are to be replaced.

### Manual electrical apparatus for hazardous areas

Electrical apparatus for potentially explosive atmospheres

II 3 D Ex tc IIIC T90 °C

94/9/EG

EN 60079-31:2009

Laws and/or regulations and standards governing the use or intended usage goal must be observed. By fitting a suitable external fixture, the connecting cable is secured against the transmission of rotational movements and tensile loading on the connections. After opening the enclosure (connection cap) and connecting the wires, but before mounting the connection cap, ensure the seal is correctly fitted and intact. Damaged seals are to be replaced.

No modifications must be undertaken on apparatus, which is operated in hazardous areas. Repairs to such apparatus are not permissible.

The cable and wire gland and end caps are to be protected from mechanical shock.

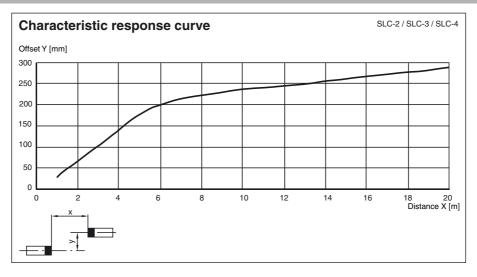
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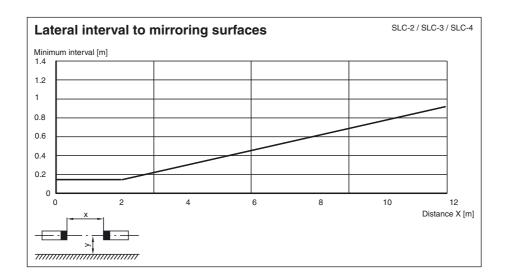
The sensor must be protected against harmful UV radiation. This can be achieved by using the sen-

sor indoors.

The enclosure is to be grounded with help of the accompanying grounding terminal EC SLC EX via a wire with a cross section of 4 mm<sup>2</sup>.

# **Curves/Diagrams**





## **Additional information**

### Profile dimensions, front view



## **System accessories**

- Mounting set SLC
- Protective glass pieces for SLC (to protect the optically functional surface)
- Lateral screwed connection SLC
- Mirror 2, 3 or 4-beam for SLC (for multi-side securing of hazardous areas)
- · Laser alignment aid BA SLC
- Profile alignment aid PA SLP/SLC
- Ground pillar UC SLP/SLC
- Housing for ground pillar Enclosure UC SLP/SLC
- Collision protector Damping UC SLP/SLC

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