

RS10-M111S03

RS10

CONTRAST SENSORS

SICK
Sensor Intelligence.

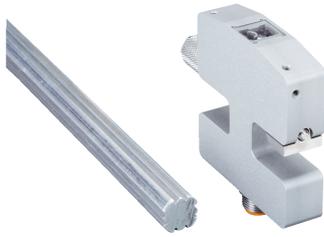


Illustration may differ



Ordering information

| Type | part no. |
|--------------|----------|
| RS10-M111S03 | 1061518 |

Other models and accessories → www.sick.com/RS10

Detailed technical data

Features

| | |
|-----------------------------------|--------------------------|
| Special applications | Special device |
| Housing design | Large |
| Dimensions (W x H x D) | 15 mm x 62 mm x 60 mm |
| Light source | LED, White ¹⁾ |
| Light spot size | 0.8 mm x 3 mm |
| Wave length | 450 nm ... 650 nm |
| Sensing distance | 13 mm |
| Sensing distance tolerance | ± 1 mm |
| Special features | Special device |

¹⁾ Average service life: 100,000 h at T_J = +25 °C.

Electronics

| | |
|-----------------------------|---|
| Supply voltage | 4.6 V DC ... 30 V DC ¹⁾ |
| Ripple | ≤ 5 V _{pp} ²⁾ |
| Current consumption | < 100 mA ³⁾ |
| Response time | 20 μs |
| Jitter | ≤ 10 μs |
| Switching output | PNP, NPN |
| Input, teach-in (ET) | Run: U < 2 V Teach: U = 4.6 V ... < U _V |
| Time delay | None |
| Protection class | II ⁴⁾ |
| Circuit protection | U _V connections, reverse polarity protected Interference pulse suppression Outputs overcurrent and short-circuit protected |

¹⁾ Limit values when operated in short-circuit protected network: max. 8 A.

²⁾ May not fall below or exceed U_V tolerances.

³⁾ Without load.

⁴⁾ Reference voltage DC 32 V.

| | |
|------------------------|---------------------------|
| Connection type | |
| | Male connector M12, 8-pin |

- 1) Limit values when operated in short-circuit protected network: max. 8 A.
 2) May not fall below or exceed U_y tolerances.
 3) Without load.
 4) Reference voltage DC 32 V.

Mechanics

| | |
|-------------------------|---------------------|
| Housing material | Aluminum (anodised) |
| Weight | 400 g |

Ambient data

| | |
|--------------------------------------|------------------------|
| Ambient operating temperature | -10 °C ... +60 °C |
| Ambient temperature, storage | -25 °C ... +75 °C |
| Shock load | According to IEC 60068 |
| Enclosure rating | IP67 |

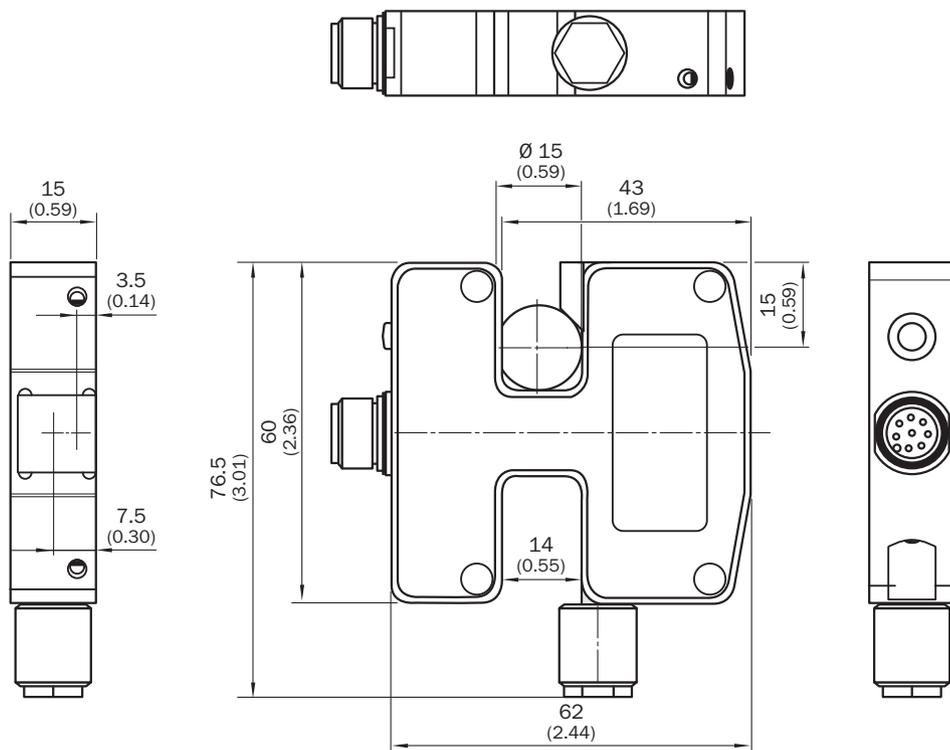
Classifications

| | |
|-----------------------|----------|
| ECLASS 5.0 | 27270906 |
| ECLASS 5.1.4 | 27270906 |
| ECLASS 6.0 | 27270906 |
| ECLASS 6.2 | 27270906 |
| ECLASS 7.0 | 27270906 |
| ECLASS 8.0 | 27270906 |
| ECLASS 8.1 | 27270906 |
| ECLASS 9.0 | 27270906 |
| ECLASS 10.0 | 27270906 |
| ECLASS 11.0 | 27270906 |
| ECLASS 12.0 | 27270906 |
| ETIM 5.0 | EC001820 |
| ETIM 6.0 | EC001820 |
| ETIM 7.0 | EC001820 |
| ETIM 8.0 | EC001820 |
| UNSPSC 16.0901 | 39121528 |

Certificates

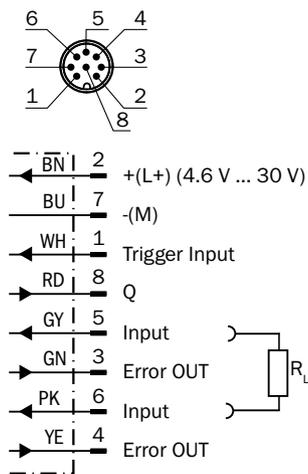
| | |
|-------------------------------------|---|
| EU declaration of conformity | ✓ |
|-------------------------------------|---|

Dimensional drawing

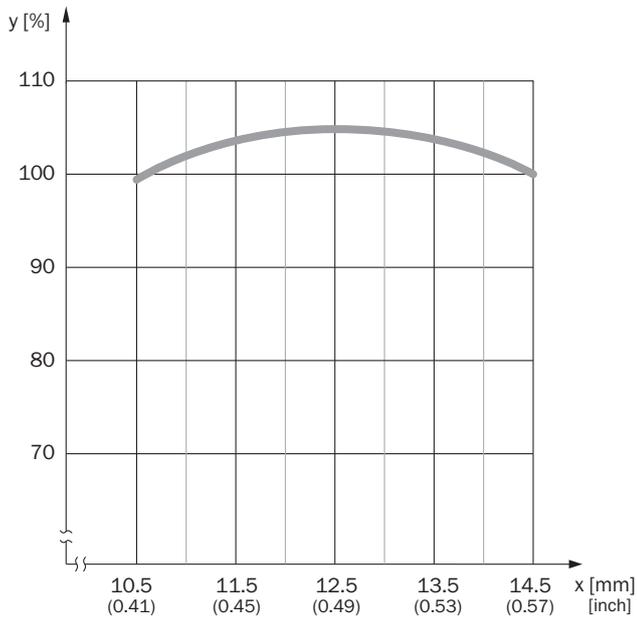


Dimensions in mm (inch)

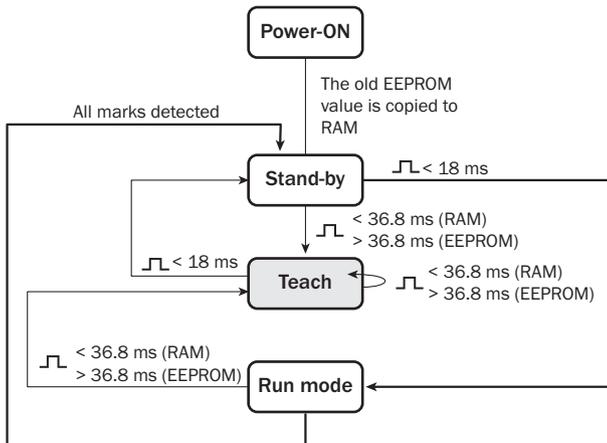
Connection diagram Cd-533



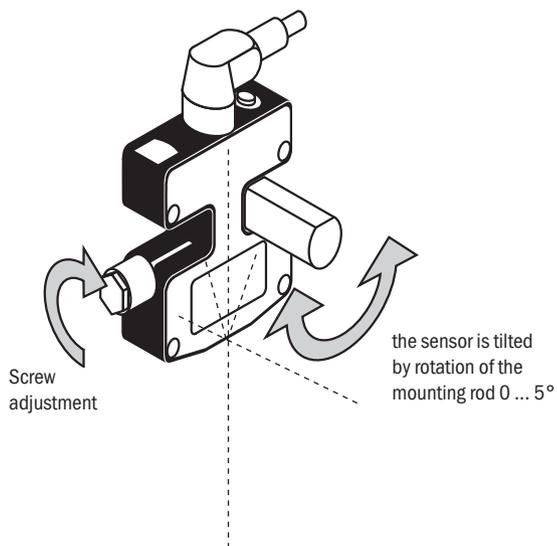
Sensing distance



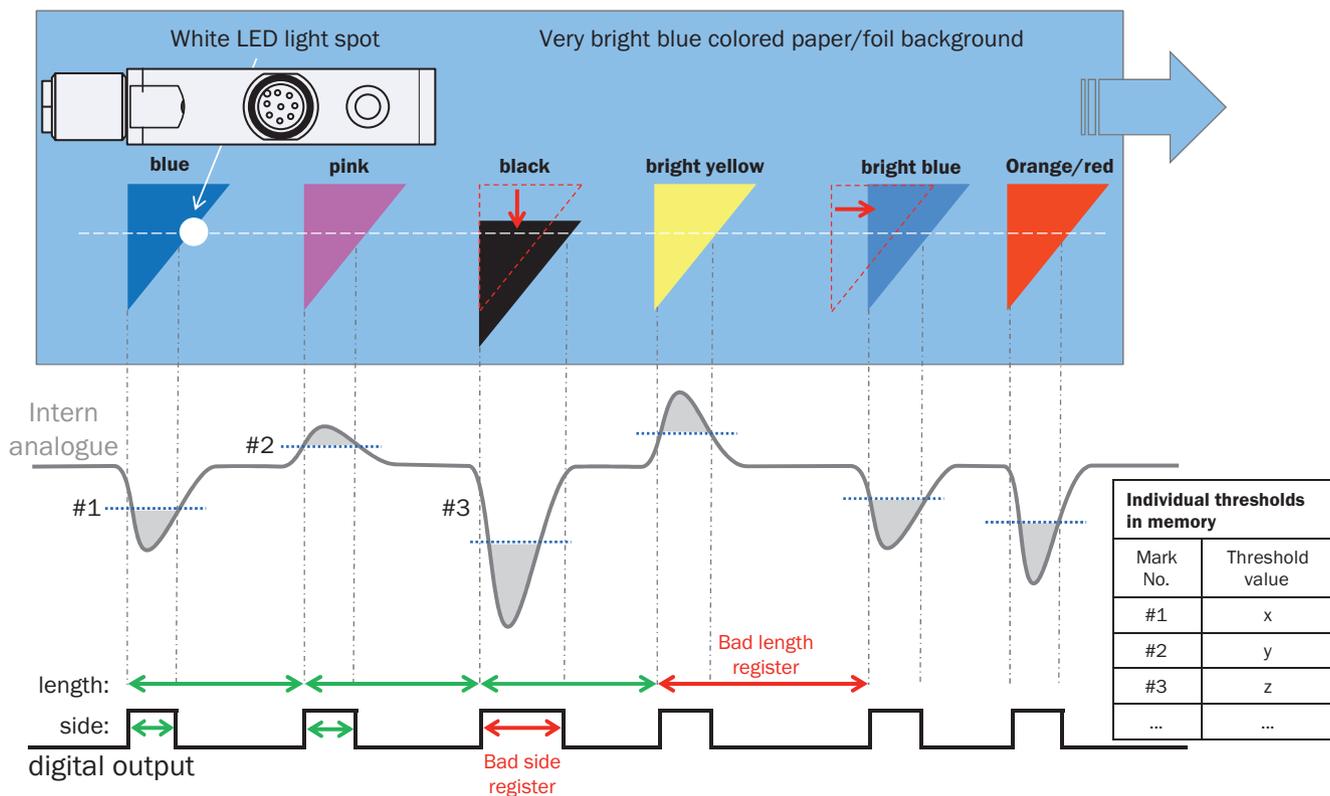
Flow diagram



Instruction for installation



Functional principle



Recommended accessories

Other models and accessories → www.sick.com/RS10

| | Brief description | Type | part no. |
|---|---|-------------------|----------|
| connectors and cables | | | |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, angled • Connection type head B: Flying leads • Signal type: Sensor/actuator cable • Cable: 2 m, 8-wire, PUR, halogen-free • Description: Sensor/actuator cable, shielded • Connection systems: Flying leads | DOL-1208-W02MAS01 | 6029224 |
|  | <ul style="list-style-type: none"> • Connection type head A: Female connector, M12, 8-pin, straight • Connection type head B: Flying leads • Cable: 2 m, 8-wire, PUR, halogen-free • Description: Shielded • Connection systems: Flying leads | YF2A68-020XXXLEAX | 6032448 |

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com