

RS10-M111

RS10

CONTRAST SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
RS10-M111	1060116

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

Detailed technical data

Features

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

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

Electronics

Supply voltage	10 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
Output current I_{max.}	< 100 mA
Input, teach-in (ET)	Run: U < 2 V Teach: U = 10 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
Connection type	

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.

	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

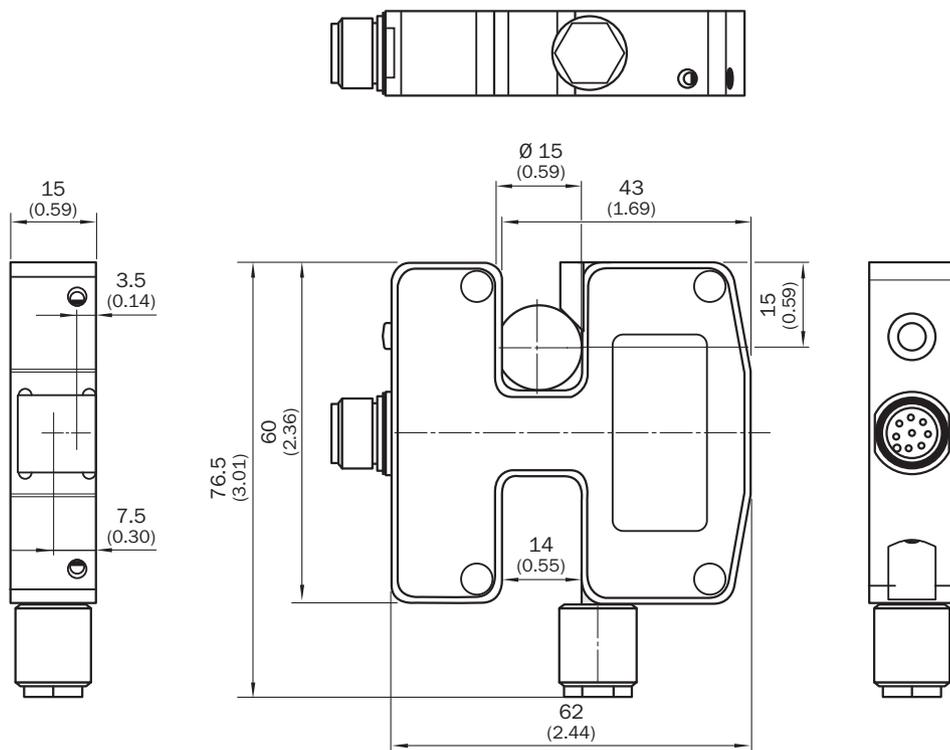
Classifications

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

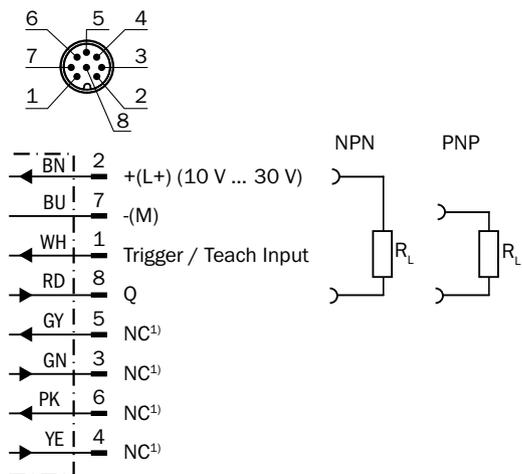
EU declaration of conformity	✓
-------------------------------------	---

Dimensional drawing



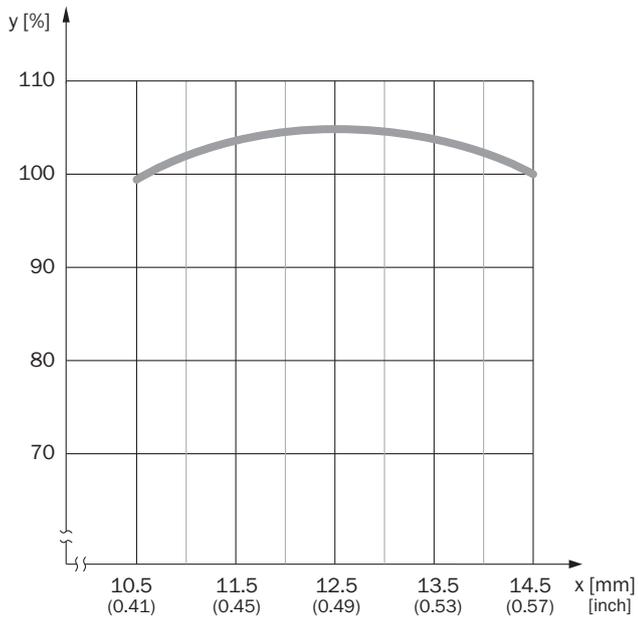
Dimensions in mm (inch)

Connection type and diagram

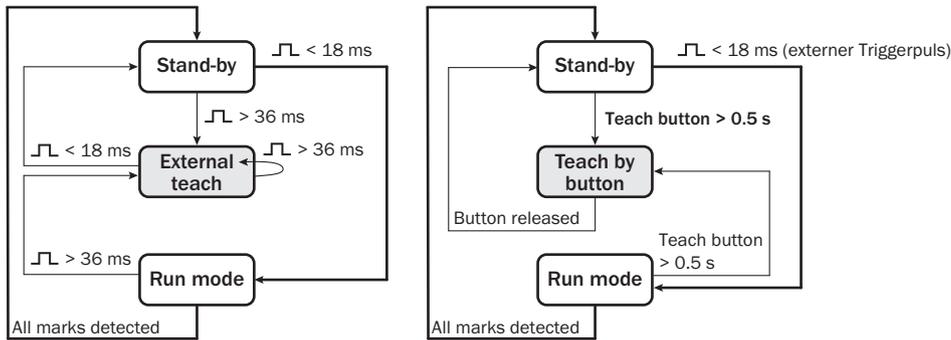


① Not connected. Leave open, do not wire to ground.

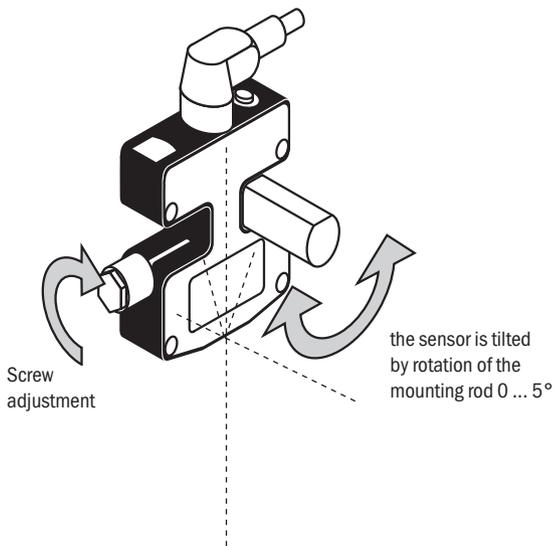
Sensing distance



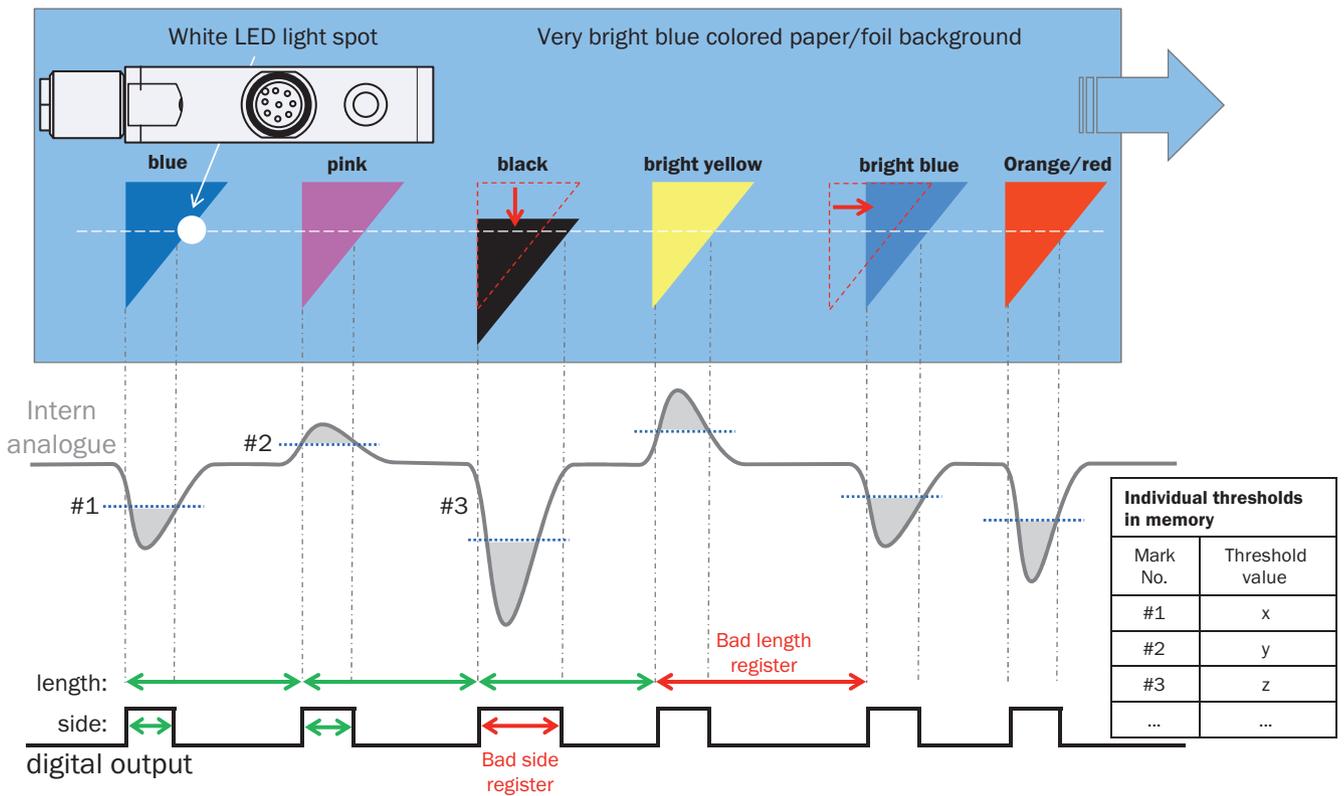
Flow diagram



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