

RS10-M111

RS10

REGISTER SENSORS





Ordering information

Туре	Part no.
RS10-M111	1060116

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



Detailed technical data

Features

Dimensions (W x H x D)	15 mm x 62 mm x 60 mm
Sensing distance	13 mm
Sensing distance tolerance	± 1 mm
Housing design (light emission)	Rectangular
Light source	LED, White ¹⁾
Wave length	450 nm 650 nm
Light spot size	0.8 mm x 3 mm

 $^{^{1)}}$ Average service life: 100,000 h at T_{U} = +25 °C.

Interfaces

Fieldbus, industrial network	-
Type of fieldbus integration	-

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	≤ 5 V _{pp} ²⁾
Power consumption	< 100 mA ³⁾
Response time	≤ 20 µs ⁴⁾
Jitter	≤ 10 µs
Switching output (voltage)	PNP/NPN, push-pull
Output current I _{max.}	< 100 mA
Input, teach-in (ET)	Run: $U < 2 V$ Teach: $U = 10 V < U_V$
Connection type	Male connector M12, 8-pin
Protection class	и ⁵⁾
Circuit protection	U _V connections, reverse polarity protected

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

 $^{^{2)}}$ May not exceed or fall below U_{V} tolerances.

³⁾ Without load.

 $^{^{4)}}$ Signal transit time with resistive load.

⁵⁾ Reference voltage DC 32 V.

	Interference pulse suppression Outputs overcurrent and short-circuit protected
Enclosure rating	IP67
Weight	400 g
Housing material	Aluminum (anodised)

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

Ambient data

Ambient operating temperature	-10 °C +60 °C
Ambient storage temperature	-25 °C +75 °C
Shock load	According to IEC 60068

Classifications

ECI@ss 5.0	27270906
ECI@ss 5.1.4	27270906
ECI@ss 6.0	27270906
ECI@ss 6.2	27270906
ECI@ss 7.0	27270906
ECI@ss 8.0	27270906
ECI@ss 8.1	27270906
ECI@ss 9.0	27270906
ETIM 5.0	EC001820
ETIM 6.0	EC001820
UNSPSC 16.0901	39121528

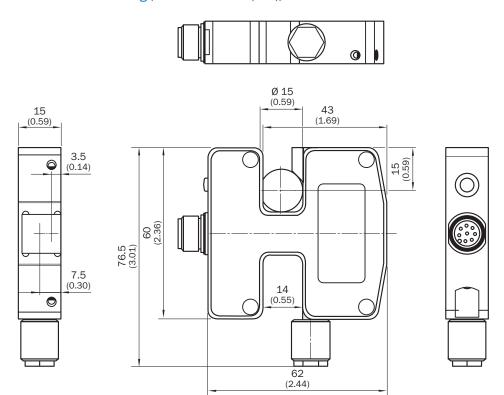
²⁾ May not exceed or fall below U_V tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

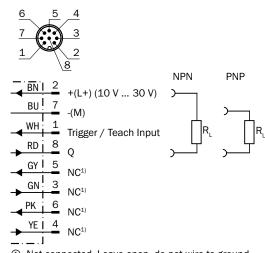
⁵⁾ Reference voltage DC 32 V.

Dimensional drawing (Dimensions in mm (inch))



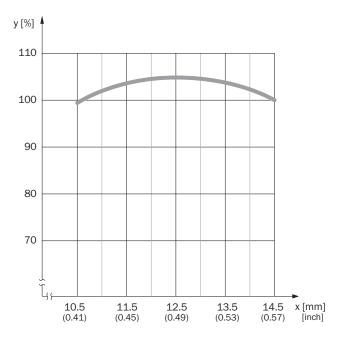
Connection diagram

cd-316



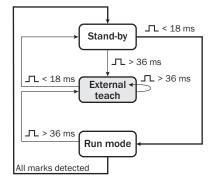
Characteristic curve

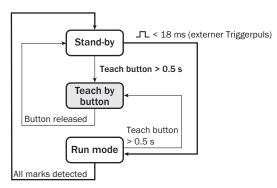
Sensing distance



Diagramm

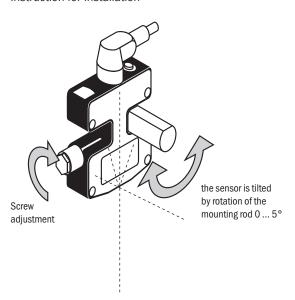
Flow diagram





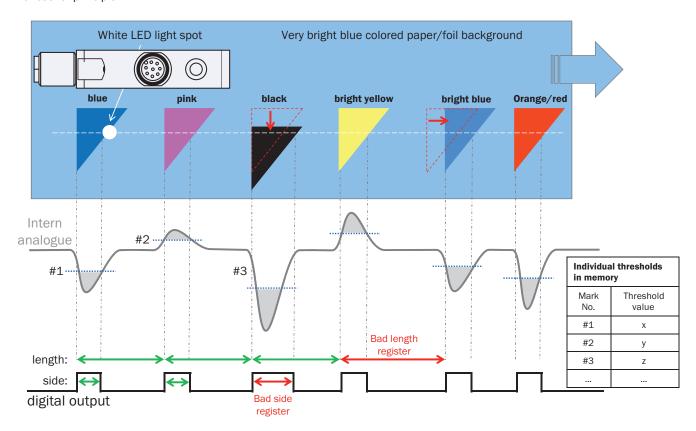
Instruction for installation

Instruction for installation



Funktionsprinzip

Functional principle



Recommended accessories

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

	Brief description	Туре	Part no.
Plug connecto	ors and cables		
191	Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: PUR, halogen-free, shielded, 2 m	DOL-1208-G02MAH1	6032448
1/8	Head A: female connector, M12, 8-pin, angled Head B: Flying leads Cable: PUR, halogen-free, shielded, 2 m	DOL-1208- W02MAS01	6029224

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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."

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