

RS10-M111 RS10

REGISTER SENSORS





Illustration may differ

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	Large
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.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	\leq 5 V_{pp}^{2}
Current consumption	< 100 mA ³⁾
Response time	≤ 20 µs ⁴⁾
Jitter	≤ 10 µs
Switching output	PNP/NPN, push-pull: PNP/NPN
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	II ⁵⁾
Circuit protection	U _V connections, reverse polarity protected Interference pulse suppression Outputs overcurrent and short-circuit protected

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

 $^{^{2)}\,\}mbox{May}$ not exceed or fall below $\mbox{U}_{\mbox{\scriptsize V}}$ tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

⁵⁾ Reference voltage DC 32 V.

Enclosure rating	IP67
Weight	400 g
Housing material	Metal, Aluminum (anodised)

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

Ambient data

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

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

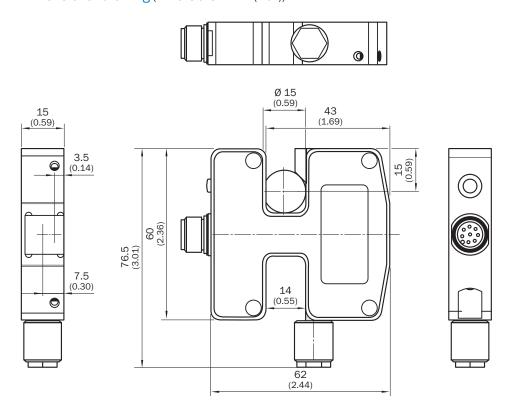
 $^{^{2)}}$ May not exceed or fall below U_{V} tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

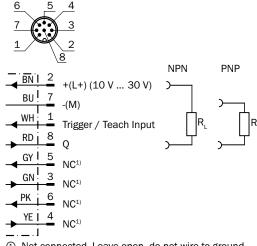
⁵⁾ Reference voltage DC 32 V.

Dimensional drawing (Dimensions in mm (inch))



Connection diagram

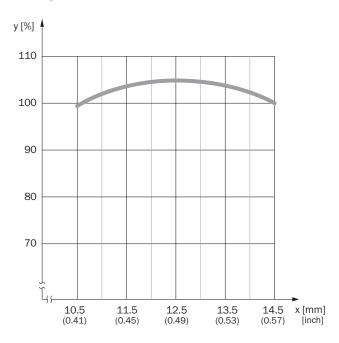
Connection type and diagram



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

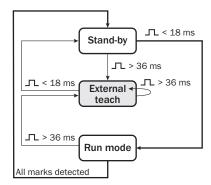
Sensing distance

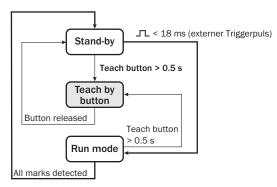
Sensing distance



Diagramm

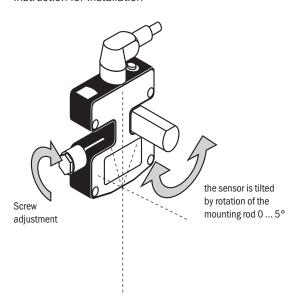
Flow diagram





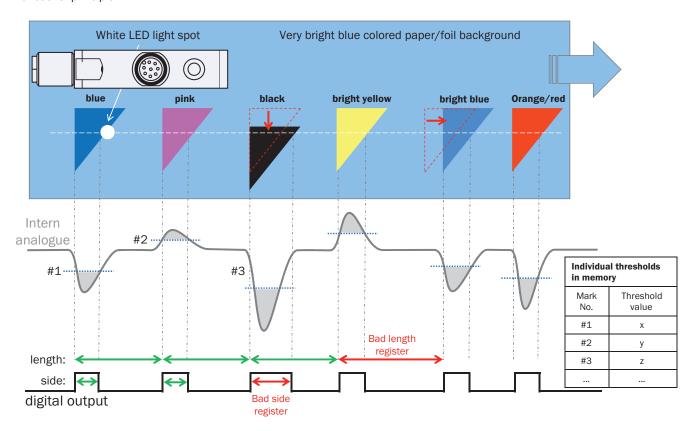
Instruction for installation

Instruction for installation



Functional principle

Functional principle



Recommended accessories

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

	Brief description	Туре	Part no.		
Plug connecto	Plug connectors and cables				
	 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		
1	 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- 020XXXXLEAX	6032448		

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