

GSE2FS-F1111

G2F

MINIATURE PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
GSE2FS-F1111	1095466

Other models and accessories → www.sick.com/G2F

Illustration may differ



Detailed technical data

Features

Sensor/ detection principle	Through-beam photoelectric sensor	
Dimensions (W x H x D)	11 mm x 21 mm x 4.5 mm	
Housing design (light emission)	Rectangular	
Minimum detectable object (MD0)	0.2 mm	
Sensing range max.	0 mm 60 mm	
Sensing range	0 mm 40 mm	
Type of light	Visible red light	
Light source	PinPoint LED ¹⁾	
Light spot size (distance)	Ø 4 mm (40 mm)	
Wave length	660 nm	
Adjustment	None	

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 5 V _{pp} ¹⁾
Current consumption	20 mA ²⁾

 $^{^{1)}}$ May not exceed or fall below U_{V} tolerances.

²⁾ Without load.

 $^{^{}m 3)}$ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

 $^{^{5)}}$ Do not bend below 0 °C.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

⁷⁾ C = interference suppression.

 $^{^{8)}}$ D = outputs overcurrent and short-circuit protected.

Switching output	PNP
Switching mode	Dark switching
Output current I _{max.}	< 50 mA
Response time	< 0.625 ms ³⁾
Switching frequency	800 Hz ⁴⁾
Connection type	Cable, 3-wire, 2 m ⁵⁾
Cable material	PVC
Cable diameter	Ø 3 mm
Circuit protection	A ⁶⁾ C ⁷⁾ D ⁸⁾
Weight	40 g
Housing material	Plastic, VISTAL®
Optics material	Plastic, MABS
Enclosure rating	IP67
Ambient operating temperature	-20 °C +50 °C
Ambient storage temperature	-40 °C +70 °C
Repeatability (T _a not constant)	0.1 mm

 $^{^{1)}}$ May not exceed or fall below U_{V} tolerances.

Classifications

ECI@ss 5.1.4 27270901 ECI@ss 6.0 27270901 ECI@ss 6.2 27270901 ECI@ss 7.0 27270901 ECI@ss 8.0 27270901 ECI@ss 8.1 27270901 ECI@ss 9.0 27270901 ECI@ss 10.0 27270901 ECI@ss 11.0 27270901 ECI@ss 11.0 27270901 ETIM 5.0 EC002716 ETIM 6.0 EC002716 ETIM 7.0 EC002716 UNSPSC 16.0901 39121528		07070004
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	UNSPSC 16.0901	39121528

²⁾ Without load.

³⁾ Signal transit time with resistive load.

⁴⁾ With light/dark ratio 1:1.

⁵⁾ Do not bend below 0 °C.

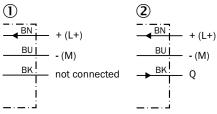
 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

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Connection diagram

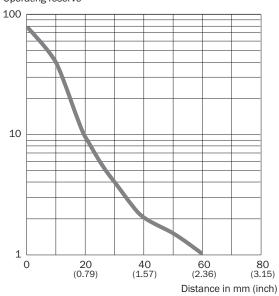
Cd-049



- ① Sender
- ② Receiver

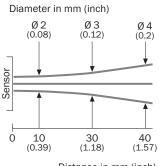
Characteristic curve

Operating reserve



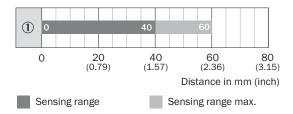
Light spot size

GSE2 Flat Side, 50 mm

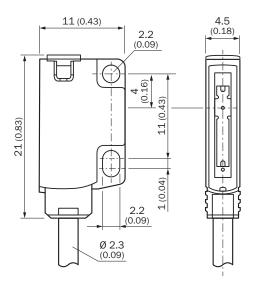


Distance in mm (inch)

Sensing range diagram



Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

Other models and accessories → www.sick.com/G2F

	Brief description	Туре	Part no.	
Mounting brackets and plates				
	10 pieces, Mounting plate for direct mounting, from the rear, on wall or machine, not adjustable. 10 Piece,Black ,Plastic, VISTAL®. Suitable for GTB2F and GSE2F	BEF-G2F-FLAT- SPACER-M2	2107263	
Plug connectors and cables				
	Head A: male connector, M8, 3-pin, straight Head B: - Cable: unshielded	STE-0803-G	6037322	

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