

GL6-E4411V

G6 Inox

PHOTOELECTRIC SENSORS



Ordering information

Туре	Part no.
GL6-E4411V	1084104

Other models and accessories → www.sick.com/G6_Inox

Illustration may differ





Detailed technical data

Features

Sensor/ detection principle	Photoelectric retro-reflective sensor, Dual lens
Dimensions (W x H x D)	15 mm x 44 mm x 22 mm
Housing design (light emission)	Rectangular
Sensing range max.	0.03 m 6 m ¹⁾
Sensing range	0.07 m 5 m ¹⁾
Type of light	Visible red light
Light source	PinPoint LED ²⁾
Light spot size (distance)	Ø 8 mm (350 mm)
Wave length	650 nm
Adjustment	Potentiometer, 270°

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	± 10 % ²⁾
Power consumption	\leq 30 mA $^{3)}$

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

 $^{^{2)}}$ Average service life: 100,000 h at TU = +25 °C.

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

³⁾ Without load.

⁴⁾ At Uv > 24 V, IA max. = 50 mA.

⁵⁾ Signal transit time with resistive load.

⁶⁾ With light/dark ratio 1:1.

 $^{^{7)}}$ A = V_S connections reverse-polarity protected.

 $^{^{8)}}$ B = inputs and output reverse-polarity protected.

 $^{^{9)}}$ D = outputs overcurrent and short-circuit protected.

¹⁰⁾ According to ISO 20653:2013-03.

 $^{^{11)}}$ Temperature stability following adjustment +/-10 $^{\circ}\text{C}.$

Could a bin of a code code	NPN
Switching output	INPIN
Output function	Complementary switching output
Switching mode	Light/dark switching
Signal voltage NPN HIGH/LOW	Approx. $V_S / \leq 3 V$
Output current I _{max.}	\leq 100 mA $^{4)}$
Response time	< 625 µs ⁵⁾
Switching frequency	± 1,000 Hz ⁶⁾
Connection type	Connector M8, 4-pin
Circuit protection	A ⁷⁾ B ⁸⁾ D ⁹⁾
Protection class	III
Weight	40 g
Polarisation filter	√
Housing material	Stainless steel, Stainless steel V4A (1.4404, 316L)
Optics material	Plastic, PMMA
Enclosure rating	IP67 IP69K ¹⁰⁾
Ambient operating temperature	-25 °C +55 °C ¹¹⁾
Ambient storage temperature	-30 °C +75 °C
UL File No.	NRKH.E348498 & NRKH7.E348498

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

Classifications

ECI@ss 5.0	27270902
ECI@ss 5.1.4	27270902
ECI@ss 6.0	27270902
ECI@ss 6.2	27270902
ECI@ss 7.0	27270902
ECI@ss 8.0	27270902
ECI@ss 8.1	27270902
ECI@ss 9.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
UNSPSC 16.0901	39121528

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 $^{^{4)}}$ At Uv > 24 V, IA max. = 50 mA.

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¹¹⁾ Temperature stability following adjustment +/-10 °C.

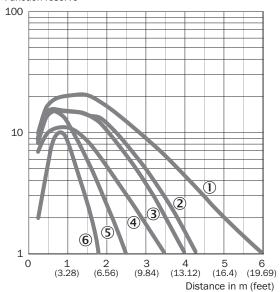
Connection diagram

Cd-084

Characteristic curve

GL6 Inox, Red, Standard

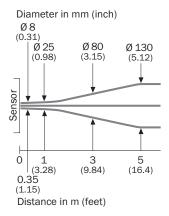
Function reserve



- ① Reflector PL80A
- ② Reflector PL40A
- 3 Reflector P250
- ④ Reflector P250 CHEM
- ⑤ Reflector PL20A
- ® Reflective tape REF-IRF-56

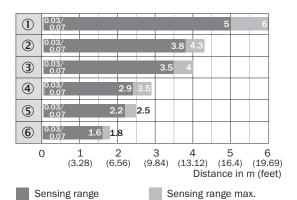
Light spot size

GL6 Inox, Red, Standard



Sensing range diagram

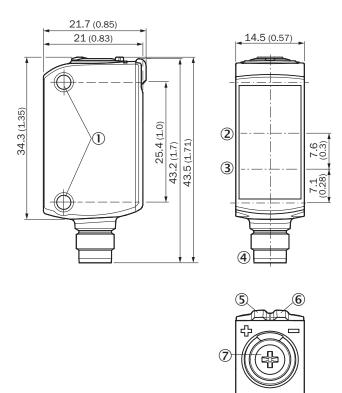
GL6 Inox, Red, Standard



- Sensing range
- ① Reflector PL80A 2 Reflector PL40A
- 3 Reflector P250
- Reflector P250 CHEM
- ⑤ Reflector PL20A
- ® Reflective tape REF-IRF-56

Dimensional drawing (Dimensions in mm (inch))

GTB6, GTE6, GL6, GSE6 Inox, male connector



- ① M3 mounting hole
- ② Optical axis, receiver
- ③ Optical axis, sender
- ④ Connection
- ⑤ LED indicator yellow: Status of received light beam
- ⑥ LED indicator green: Supply voltage active
- ⑦ Potentiometer

Recommended accessories

Other models and accessories → www.sick.com/G6_Inox

	Brief description	Туре	Part no.		
Universal bar clamp systems					
	Clamp bar to fix G6 sensors on rods of 10 mm, clamp-on design up to 4 mm wall thickness, aluminum (clamp bar), stainless steel (bracket), clamp bar for 10 mm rod mounting and clamp function, mounting bracket, mounting hardware	BEF-KHS-ISG6	2075080		
Mounting brackets and plates					
		BEF-WN-G6	2062909		

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For us, that is "Sensor Intelligence."

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