

GS CE

Model Number

GL5-F-6183

Photoelectric slot sensor with fixed cable with Stocko plug, 4-pin

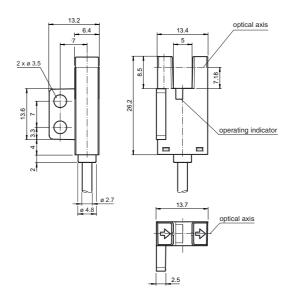
Features

- Miniature design ٠
- Optimized for the detection of small ٠ parts
- High switching frequency ٠
- Simple and fast mounting •
- Clearly visible LED functional display ٠

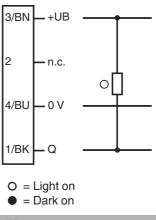
Product information

The GL5 miniature slot sensor compares a high optical performance in a small housing and is optimized to the requirements in semiconductors industry for small part detection. A wide voltage range of 5 - 24 V DC and the fastest switching frequency of 5 kHz in its class stands for the quality of this sensor. The integrated aperture allows the small part detection with a minimum object size of 0.8 x 1.8 mm. The sensor offers antivalent npn or pnp outputs. Due to a variety of different housings and an optimized housing concept offers the sensor a maximum of freedom in a crowded mounting environment.

Dimensions



Electrical connection



Pinout



Pepperl+Fuchs Group

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

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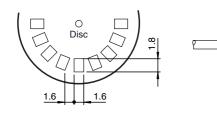
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Technical data

Light type Infrared, continuous light, 940 nm Target size 0.8 x 1.8 mm Fork width 5 mm Ambient light limit 1000 Lux Functional safety related parameters MTTFq MTTFq 3760 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means red LED lights up when receiving the light beam Electrical specifications red LED lights up when receiving the light beam Operating voltage Ug 5 24 V DC, class 2 No-load supply current 10 max. 20 mA Time delay before availability tv < 2 ms	General specifications		
Target size 0.8 x 1.8 mm Fork width 5 mm Ambient light limit 1000 Lux Functional safety related parameters MTTF, MTTF, 3760 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means red LED lights up when receiving the light beam Electrical specifications 0 Operating voltage UB 524 V DC, class 2 No-load supply current 10 max. 20 mA Time delay before availability v, as Signal output 1 NPN, overvoltage protected Switching type light on Signal output 1 NPN, overvoltage protected Switching requency f Max. 5 0 mA, resistive load Voltage drop Ud Wax. 0.2 V at 10 mA max. 0.6 V at 50 mA Switching frequency f Ambient conditions A Ambient toregrature -35 55 °C (-13 131 °F) Storage temperature -30 80 °C (-22 176 °F) Pollution Degree 2 Connection 100 mm Fixed cable with 4-pin Stocko plug Material	Light source		IRED
Fork width 5 mm Ambient light limit 1000 Lux Functional safety related parameters 760 a MTTFq 3760 a Mission Time (T _N) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means red LED lights up when receiving the light beam Electrical specifications red LED lights up when receiving the light beam Operating voltage Ug 524 V DC, class 2 No-load supply current 10 max. 20 mA Time delay before availability t, v < 2 ms	Light type		Infrared, continuous light, 940 nm
Ambient light limit 1000 Lux Functional safety related parameters 3760 a MTTFd 3760 a Mission Time (TM) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means red LED lights up when receiving the light beam Electrical specifications red LED lights up when receiving the light beam Portating voltage UB 524 V DC , class 2 No-load supply current Io max. 20 mA Time delay before availability t, < 2 ms	Target size		0.8 x 1.8 mm
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Function indicator red LED lights up when receiving the light beam Electrical specifications Operating voltage UB 5 24 V DC , class 2 No-load supply current I0 max. 20 mA Time delay before availability t, v < 2 ms	Diagnostic Coverage (DC)		0 %
Electrical specifications UB 5 24 V DC , class 2 No-load supply current I0 max. 20 mA Time delay before availability t, < <2 ms	Indicators/operating means		
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No-load supply current I₀ max. 20 mA Time delay before availability t, < 2 ms	Electrical specifications		
Time delay before availability t, v < 2 ms	Operating voltage	UB	5 24 V DC , class 2
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Storage temperature-30 80 °C (-22 176 °F)Pollution Degree2Mechanical specificationsIP50Protection degreeIP50Connection100 mm Fixed cable with 4-pin Stocko plugMaterialPBTHousingPBTMass25 gCompliance with standards and directi- vesDirective conformityEN 60947-5-2:2007Standard conformityEN 60947-5-2:2007Standard conformityEN 60947-5-2:2007Product standardIE 60947-5-2:2007Standard conformityEN 60947-5-2:2007VL approvalCULus Recognized, Class 2 Power SourceCCC approvalCCC approval / marking not required for products rated ≤36 V	Ambient conditions		
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The response frequency is the value when the disc, given in the figure holow, is retated	Response frequency		

The response frequency is the value when the disc, given in the figure below, is rotated.

Disc



t = 0.2

The GL5 is suited for applications in the semiconductor and electronic industrial environment.

Typical applications include:

Applications

- 1. Detection of lead frames
- 2. Detection of cam positions
- Detection of limit positions of moving objects З.
- 4. Position detection of wafer cases

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