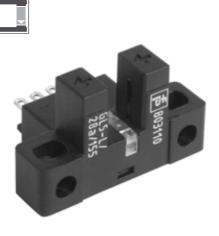
Photoelectric slot sensor



CE c us

Model Number

GL5-L/43a/155

Photoelectric slot sensor With flat connector, 4-pin

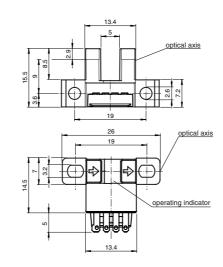
Features

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

Product information

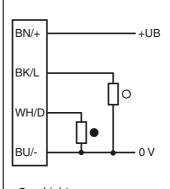
The GL5 miniature slot sensor compares a high optical performance in a small housing and is optimized to the requirements in semiconductors industry for small part detection. A wide voltage range of 5 - 24 V DC and the fastest switching frequency of 5 kHz in its class stands for the quality of this sensor. 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



O = Light on ● = Dark on

Subject to modifications without notice Pepperl+Fuchs Group US www.pepperl-fuchs.com fa-info

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Accessories **CBL SET GL5**

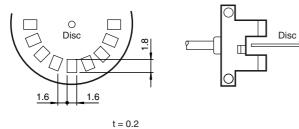
www.pepperl-fuchs.com

Connection cable for GL5 series

Other suitable accessories can be found at

Technical data		
General specifications		
Light source		IRED
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 paran	neters	
MTTF _d		3760 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function display		red LED lights up when receiving the light beam
Electrical specifications		
Operating voltage	UB	5 24 V DC , class 2
No-load supply current	I ₀	max. 20 mA
Time delay before availability	t _v	< 2 ms
Output		
Switching type		light/dark on
Signal output		2 PNP complementary, overvoltage protected
Switching voltage		max. 30 V DC
Switching current		max. 50 mA, resistive load
Voltage drop	Ud	max. 0.2 V at 10 mA max. 0.6 V at 50 mA
Switching frequency	f	max. 5 kHz
Response time		40 μs Light beam is not interrupted 80 μs Light beam is interrupted
Repeat accuracy	R	0.03 mm
Ambient conditions		
Ambient temperature		-25 55 °C (-13 131 °F)
Storage temperature		-30 80 °C (-22 176 °F)
Pollution Degree		2
Mechanical specifications		
Protection degree		IP50
Connection		4-pin flat connector
Material		
Housing		PBT
Mass		3 g
Compliance with standards and ves	direct	-
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Standard conformity		
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Recognized, Class 2 Power Source
CCC approval		Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.
Response frequency	value v	when the disc, given in the figure below, is rotated.

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



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

Typical applications include:

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

Release date: 2013-01-29 09:47 Date of issue: 2013-01-29 803113_eng.xml

2

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

fa-info@pepperl-fuchs.com

Germany: +49 621 776-4411

Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

