Dimensions



CAUS CE

Model Number

GL5-Y/28a/155

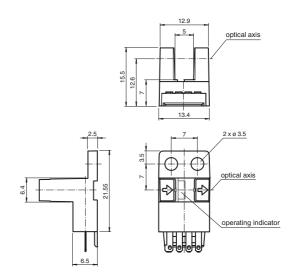
Photoelectric slot sensor With flat connector, 4-pin

Features

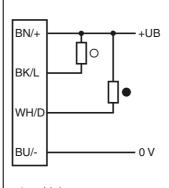
- Miniature design ٠
- Optimized for the detection of small ٠ parts
- High switching frequency ٠
- Simple and fast mounting •
- Clearly visible LED functional display ٠

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.



Electrical connection



O = Light on = Dark on

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

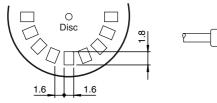
USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

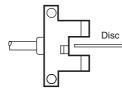
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



Technical data		
General specifications		
Light source		IRED
Light type		Infrared, continuous light, 940 nm
Target size		0.8 x 1.8 mm
Slot width		5 mm
Slot depth		8.5 mm
Ambient light limit		1000 Lux
Functional safety related parar	neters	
MTTF _d		3760 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
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	l _o	max. 20 mA
Time delay before availability	t _v	< 2 ms
Output		
Switching type		light/dark on
Signal output		2 NPN complementary, overvoltage protected
Switching voltage		max. 30 V DC
Switching current		max. 50 mA, resistive load
Voltage drop	U _d	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		
Degree of protection		IP50
Connection		4-pin flat connector
Material		
Housing		PBT
Mass		3 g
Tightening torque, fastening scre	ews	0.6 Nm
Compliance with standards an ves	d directi	-
Directive conformity EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012
Standard conformity		EN 00947-5-2.2007+A1.2012
Standards		UL 60947-5-2
Approvals and certificates		
UL approval		cULus Recognized, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤36 V
Response frequency		
he response frequency is the	value w	hen the disc, given in the figure below, is rotated.



t = 0.2



Applications

2

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

Accessories

CBL SET GL5

Connection cable for GL5 series

Other suitable accessories can be found at www.pepperl-fuchs.com

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