

CE c us

Model Number

GL5-J/43a/155

Photoelectric slot sensor With flat connector, 4-pin

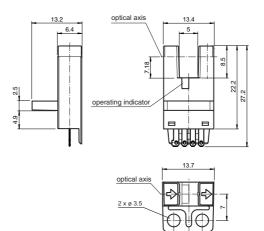
Features

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

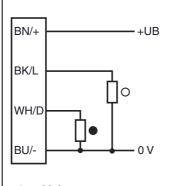
Product information

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

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Accessories CBL SET GL5

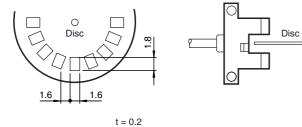
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Connection cable for GL5 series

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 parameters	eters	
MTTFd		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		5 . 5 5
Operating voltage	U _B	5 24 V DC , class 2
No-load supply current	- B	max. 20 mA
Time delay before availability	t,	< 2 ms
Output	-v	
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 us 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	directi	
Ves		
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Standard conformity		EN 000 (7 5 0 0007
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 ≤36 V do not bear a CCC marking because they do not require approval.
Response frequency		

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



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
- 3. Detection of limit positions of moving objects
- 4. Position detection of wafer cases

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