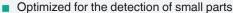


Photoelectric slot sensor

GL5-L/28a/155





- High switching frequency
- Simple and fast mounting
- Clearly visible LED functional display



Miniature photoelectric slot sensor for the detection of small parts, L design, fork width 5 mm, infrared light, NPN outputs, flat connector



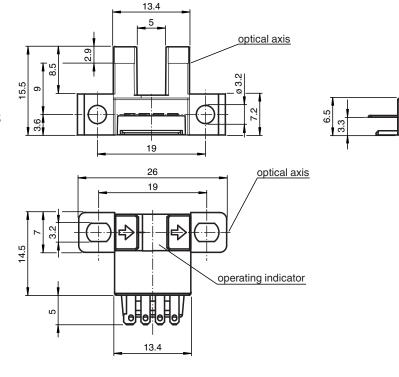
Function

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.

Application

- · Detection of lead frames
- · Detection of cam positions
- · Detection of limit positions of moving objects
- · Position detection of wafer cases

Dimensions





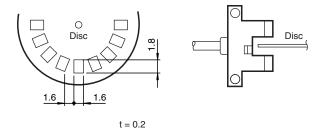


Technical Data

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 parameters		
MTTF _d		3760 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		0.70
Function indicator		red LED lights up when receiving the light beam
Electrical specifications		red LED lights up when receiving the light beam
		F 04 V DC close 0
Operating voltage	U _B	5 24 V DC , class 2
No-load supply current	l ₀	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
Compliance with standards and directives		
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007+A1:2012
Standard conformity		
Standards		UL 60947-5-2
Approvals and certificates		
EAC conformity		TR CU 020/2011
UL approval		cULus Recognized, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤36 V
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		7 più nat confidetto
		PBT
Housing		
Mass		3 g
Tightening torque, fastening screws		0.6 Nm
Dimensions		
Height		26 mm
Width		19.5 mm
Length		15.5 mm

- O = Light on
- = Dark on

Technical Features



Response frequency

The response frequency is the value when the disc is rotated, see figure.