

Photoelectric slot sensor GL5-L/46a/59/115e



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

Miniature slot sensor for small part detection, L design, 5 mm slot width, infrared light, PNP output, dark on, 150 mm fixed cable with JST plug, 3-pin



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.

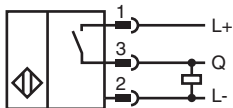
Application

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

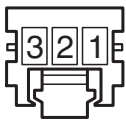
Technical Data

Response time		40 μ s Light beam is not interrupted 80 μ s 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		
UL approval		cULus Recognized, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated \leq 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		0.15 m cable with 3-pin JST connector
Material		
Housing		PBT
Mass		3 g
Tightening torque, fastening screws		0.6 Nm
Dimensions		
Height		26 mm
Width		18.5 mm
Length		15.5 mm
Cable length		0.15 m

Connection Assignment



Connection

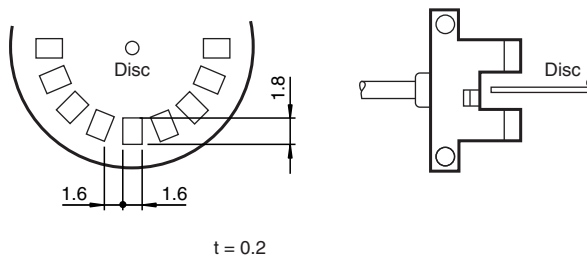


Connection

Wire colors in accordance with EN 60947-5-2

1		BN	(brown)
2		BU	(blue)
3		BK	(black)

Technical Features



Response frequency

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