





Model Number

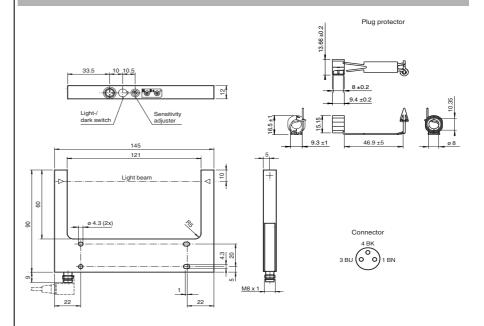
GL121-IR-EX2/32/40a/98a

Photoelectric slot sensor with 3-pin, M8 x 1 connector

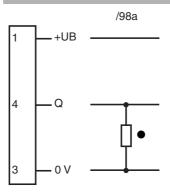
Features

- ATEX-approval for zone 2
- Optimized for the detection of small parts
- High switching frequency
- Sensitivity adjuster and light/dark switch as standard features of this se-
- Infrared light
- Protection degree IP67
- Diecast zinc housing, powder coated

Dimensions



Electrical connection



- O = Light on
- = Dark on

Pinning according



www.pepperl-fuchs.com

10	~h	n	\sim	ata
			va	аца

General specifications

Light source **IRED**

Light type modulated infrared light

Target size 0.3 mm Fork width 121 mm Ambient light limit 100000 Lux

Functional safety related parameters

 MTTF_d 1290 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 %

Indicators/operating means

Function display LED red in connector

Controls Sensitivity adjuster, light/dark switch

Electrical specifications

10 ... 30 V DC Operating voltage U_B Ripple 10 % No-load supply current ≤ 15 mA I_0

Output

Switching type light/dark on

Signal output 1 PNP, short-circuit protected, open collector

max. 30 V DC Switching voltage Switching current max. 100 mA 0.05 mm Repeat accuracy Switching frequency 2 kHz Response time ≤ 250 μs

Ambient conditions

Ambient temperature -20 ... 60 °C (-4 ... 140 °F) Storage temperature -20 ... 75 °C (-4 ... 167 °F)

Mechanical specifications

Protection degree **IP67**

Connection M8 x 1 connector, 3-pin

Material

Housing powder coated diecast zinc Ontical face alass

Mass 295 g

General information

Use in the hazardous area see more details for the use in hazardous areas

Category

Compliance with standards and directives

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

CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require appro-

Manual electrical apparatus for hazardous areas

ATEX 3G (nA) Instruction

> Device category 3G (nA) for use in hazardous areas with gas, vapour and mist

Directive conformity 94/9/EG

Standard conformity EN 60079-0:2009, EN 60079-15:2010, EN 60079-28:2007

⟨Ex⟩ II 3 G Ex nAc op is IIC T6 Ex-identification

Installation, Comissioning Laws and/or regulations and standards governing the use or intended usage goal must be observed. Attach the connector fuse provided so that the connector cannot be unplugged without using tools.

Only connections that are disconnected from the power supply may be unplugged.

Maintenance No modifications must be undertaken on apparatus, which is operated in hazardous areas. Repairs to

such apparatus are not permissible

Special conditions

Maximum permissible ambient temperature T_{Umax} 60 °C (140 °F)

Protection from mechanical danger The apparatus must be protected from mechanical damage.

Protection from UV light The sensor must be protected against harmful UV radiation. This can be achieved by using the sensor

Electrostatic charging Electrostatic charges on the sensor must be avoided.

Precautions must be taken to prevent the rated voltage being exceeded by more than 40 % due to tran-Protection of overvoltage

sient disturbances

200898_eng.xml

2

Other conditions

The connection cable and the plug connector must be protected from excessive and unintentional tensile and compressive loading. The plug connector must not be disconnected under voltage. When the plug connector is disconnected the ingress of dirt into the inner areas (i.e. the areas, which are not accessible in the plugged-in condition) must be prevented. The plug connection can only be separated using a tool. This is achieved by using the unlocking protection "Plug protector" (Mounting accessory from Pepperl + Fuchs).

Germany: +49 621 776-4411

fa-info@pepperl-fuchs.com