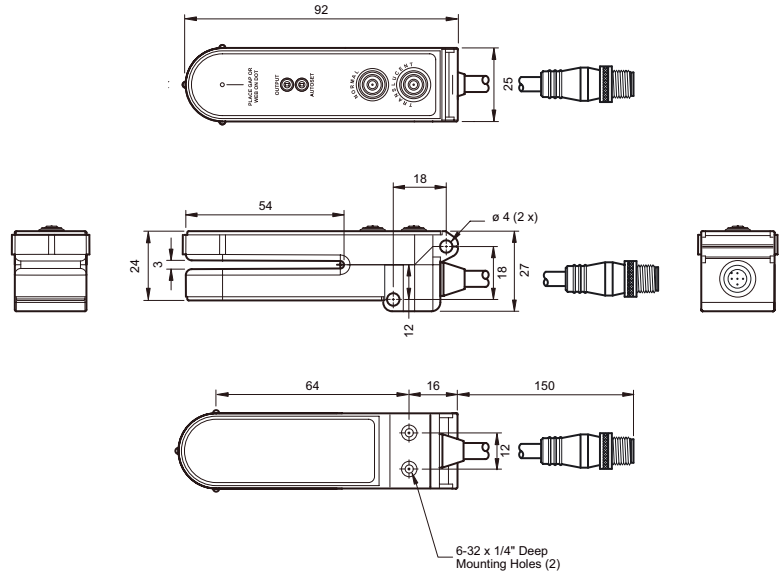## Dimensions

Model Number

GLD3-RT/115b/123/147

Photoelectric slot sensor

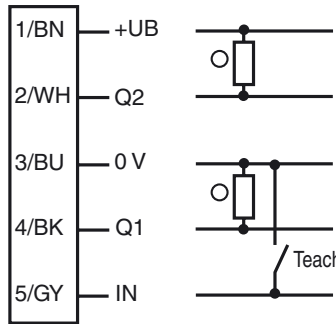with 150 mm fixed cable and 5-pin, M12 x 1 connector

Features

- Push-button programmable
- Adjustable sensitivity
- Detection of paper and foil labels, including translucent varieties
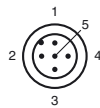- Remote teach capability

Electrical connection

1/BN	+UB
2/WH	Q2
3/BU	0 V
4/BK	Q1
5/GY	IN

○ = Light on
● = Dark on

Pinout

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS   **1**

Technical data

General specifications

Light source	LED
Light type	modulated visible red light
Slot width	3 mm
Slot depth	54 mm

Indicators/operating means

Function indicator	2 LEDs

Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
Ripple		10 %
No-load supply current	I_0	≤ 45 mA

Output

Switching type		light/dark on
Signal output		1 NPN and 1 PNP Short circuit and overload protected Reverse polarity protected
Switching current		max. 150 mA
Voltage drop	U_d	≤ 1.5 V
Switching frequency	f	5 kHz
Response time		≤ 100 µs

Conformity

Product standard	EN 60947-5-2

Ambient conditions

Ambient temperature	-40 ... 70 °C (-40 ... 158 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Housing width	25 mm
Housing height	27.21 mm
Degree of protection	IP66
Connection	fixed cable 150 mm with M12 x 1 male connector, 4 pin
Material	
Housing	Thermoplastic PPS
Optical face	zylex
Cable	PVC
Mass	62.37 g
Cable length	0.15 m

Approvals and certificates

UL approval	cULus
CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	CE
USA	cULus
Canada	cULus

GLD3 series programming

Programming standard labels:

1. Use the external alignment guides on the sensor housing to position the alignment dot over the label gap
2. Push the teach button labeled "Normal" for 1 second
3. The green Autoset LED will blink several times very fast during the teach process

If the teach is successful, the green Autoset LED will be ON.

If the teach is not successful, both the green Autoset LED and the red Output LED will blink 2 times very slow, then the green Autoset LED will be ON.

Programming translucent labels:

1. Use the external alignment guides on the sensor housing to position the alignment dot over the label gap
2. Push the teach button labeled "Translucent" for 1 second
3. The green Autoset LED will blink several times very fast during the teach process

If the teach is successful, the green Autoset LED will be ON.

If the teach is not successful, both the green Autoset LED and the red Output LED will blink 2 times very slow, then the green Autoset LED will be ON.

Programming using remote teach:

1. Use the external alignment guides on the sensor housing to position the alignment dot over the label gap
2. Momentarily apply 0V (-) to pin 5 (gray wire)
3. The green Autoset LED will blink several times very fast during the teach process

If the teach is successful, the green Autoset LED will be ON.

If the teach is not successful, both the green Autoset LED and the red Output LED will blink 2 times very slow, then the green Autoset LED will be ON.

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When using remote teach, the sensor is programmed for either Normal or Translucent labels, whichever button was last used for programming.

Light On/Dark On:

The output of the sensor can be inverted by pressing both the Normal button and Translucent simultaneously. The red Output LED and the sensors output will change states.

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