



**Model Number**

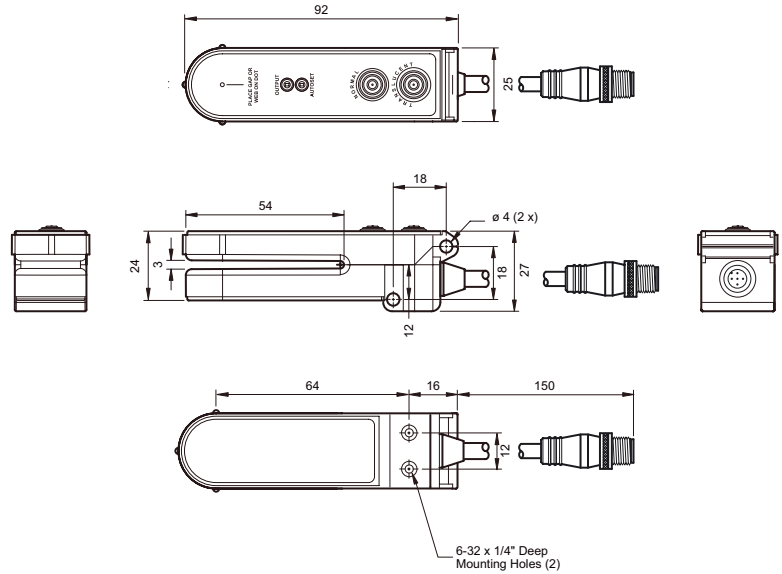
**GLD3-RT/115b/123/147**

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

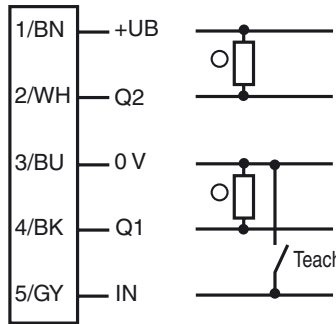
**Features**

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

**Dimensions**

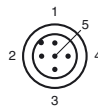


**Electrical connection**



○ = 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)

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**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
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**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
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**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.

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.