



PHOTOELECTRIC SLOT SENSORS FOR LABEL DETECTION



POWERFUL, EASY-TO-CONFIGURE LABEL DETECTION SENSOR

Introducing an easy-to-use photoelectric sensor from Pepperl+Fuchs specifically designed to detect adhesive labels on a roll. With an advanced one-step setup, programming is fast and simple with a single press of a button. It features a compact and robust one-piece slot housing that is chemical resistant, waterproof, and operational down to -40 °F. Add to that fast response, ambient light immunity, available remote teach, and it's easy to see it's more than just a label detector.

CAPABILITIES




- One-touch pushbutton programming
- Fast response time
- NPN and PNP output
- Remote teach model

APPLICATION POSSIBILITIES

- Label detection
- End of roll detection
- Web break detection
- Double sheet detection
- Splice detection
- Label counting
- Edge guiding



SPECIFICATIONS

SENSING RANGE	0-3 mm	0-3 mm	0-3 mm
Sensitivity adjustment	Yes, pushbutton	Yes, pushbutton	Yes, pushbutton
Remote teach	No	No	Yes
Model number	GLD3-RT/115/147	GLD3-RT/95/147	GLD3-RT/115b/123/147
Output	/147 1 NPN and 1 PNP	1 NPN and 1 PNP	1 NPN and 1 PNP
<i>Load current</i>	150 mA max.	150 mA max.	150 mA max.
<i>Voltage drop</i>	≤ 1.5V	≤ 1.5V	≤ 1.5V
<i>Short circuit and overload protection</i>	Yes	Yes	Yes
<i>Reverse polarity protection</i>	Yes	Yes	Yes
Supply voltage	10-30VDC	10-30VDC	10-30VDC
Voltage ripple	10%	10%	10%
Led(s)	Yes (2)	Yes (2)	Yes (2)
Current consumption	≤ 45 mA	≤ 45 mA	≤ 45 mA
Operating mode	Light on/dark on	Light on/dark on	Light on/dark on
Response time	≤ 100 μs	≤ 100 μs	≤ 100 μs
Switching frequency	5 kHz	5 kHz	5 kHz
Standards	EN 60947-5-2	EN 60947-5-2	EN 60947-5-2
Protection (IEC)	IP66	IP66	IP66
Light source	Visible red LED	Visible red LED	Visible red LED
Temperature range	<i>Working</i>	-40 °F to +158 °F	-40 °F to +158 °F
	<i>Storage</i>	-40 °F to +158 °F	-40 °F to +158 °F
Housing material	<i>Housing</i>	Thermoplastic PPS	Thermoplastic PPS
	<i>Lens</i>	Zylex	Zylex
Weight	2.9 oz	1.9 oz	2.2 oz
Approvals	CE cULus	CE cULus	CE cULus
Electrical connection	 2-meter cable	 Quick disconnect type V31	 150 mm pigtail, quick disconnect type V15

WIRING DIAGRAMS

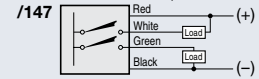
DC



Cable Connection

Light On/Dark On

NPN and PNP Outputs



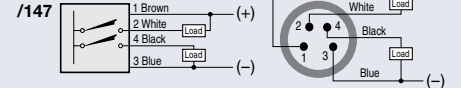
Quick Disconnect

Note: Wiring diagrams show quick disconnect pin numbers.

V31 Type

Light On/Dark On

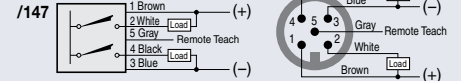
NPN and PNP Outputs



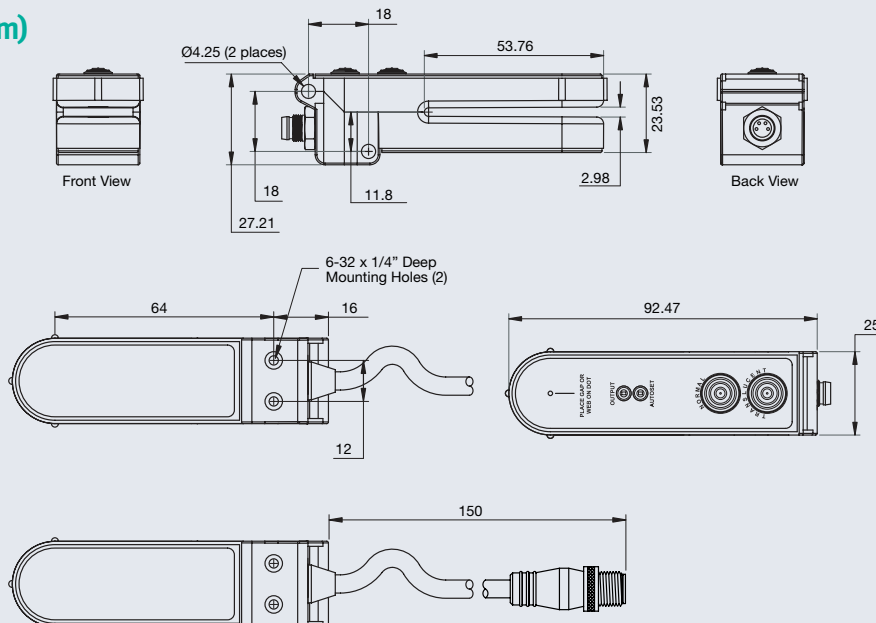
V15 Type

Light On/Dark On

NPN and PNP Outputs



DIMENSIONS (mm)



FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements—wherever you need us.

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