PHOTOELECTRIC SLOT SENSORS
FOR LABEL DETECTION
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

**DIMENSIONS (mm)**

**POWERFUL, EASY-TO-CONFIGURE LABEL DETECTION SENSOR**

- Cable, M8, M12 pigtail
- Rubber-sealed pushbutton
- One-touch automatic set-up
- Ultra-bright LED indicators
- Side thru-hole mounting
- (2) 6-32 x 1/4" mounting holes on the bottom
- 2.98 mm gap
- Rugged one-piece housing, chemical resistant and waterproof
## SPECIFICATIONS

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

## DIMENSIONS (mm)

- **Front View**
  - Ø4.25 (2 places)
  - Length 53.76
  - Diameter 18
  - Width 27.21

- **Back View**
  - Length 92.47
  - Width 25
  - Diameter 150

- **Side Thru-hole Mounting**
  - 6-32 x 1/4" Deep Mounting Holes (2)

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### WIRING DIAGRAMS

- **DC**
  - **Cable Connection**
    - **V31 Type**
      - Light On/Dark On NPN and PNP Outputs
      - Wiring pin numbers:
        - Brown (+)
        - White (-)
        - Blue
        - Black
        - Gray
      - Remote Teach
    - **V15 Type**
      - Light On/Dark On NPN and PNP Outputs
      - Wiring pin numbers:
        - Brown (+)
        - White (-)
        - Blue
        - Black
        - Gray
      - Remote Teach

Note: Wiring diagrams show quick disconnect pin numbers.
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.