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 them.

www.pepperl-fuchs.us

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MULTIPLE OPTIONS IN AN INDUSTRY-STANDARD HOUSING

“4-IN-1” OUTPUT

Reduce your inventory by having one sensor replace four with Pepperl+Fuchs’ 4-in-1 output. This 4-in-1 technology offers a normally open and a normally closed output, which will automatically detect the connected load. A single sensor can operate in NPN normally open, NPN normally closed, PNP normally open, or PNP normally closed, via external wiring to select the mode. No sinking or sourcing confusion.

ACCESSORIES

Simplify your installation with Pepperl+Fuchs’ accessories. From simple mounting solutions to conduits and reflectors, our broad range of accessories will complement and extend the capability of your Series 61 photoelectric sensor.

FACTORY AUTOMATION

HIGH-PERFORMANCE PHOTOELECTRIC SENSORS
A comprehensive and powerful product line offering five sensing modes.

**SENSING MODES**

- **BACKGROUND SUPPRESSION:**
  - Sensing range: 500 mm
  - Light ON/Dark ON selectable
  - ON delay, OFF delay, and one-shot timers
  - Sensitivity adjustment
  - Timer adjustment via pot (0-50 ms DC, 0-10 s AC/DC)

- **Polarized Retroreflective:**
  - Sensing range: 0 – 1 m
  - Light ON/Dark ON selectable
  - ON delay, OFF delay, and one-shot timers
  - Sensitivity adjustment
  - Timer adjustment via pot (0-50 ms DC, 0-10 s AC/DC)

- **Diffuse:**
  - Sensing range: 0 – 2 m
  - Light ON/Dark ON selectable
  - ON delay, OFF delay, and one-shot timers
  - Sensitivity adjustment
  - Timer adjustment via pot (0-50 ms DC, 0-10 s AC/DC)

- **Fiber-optic:**
  - Sensing range is dependent on which fiber cable is used.

- **Thru-Beam:**
  - Sensing range: 0 – 20 m
  - Light ON/Dark ON selectable
  - ON delay, OFF delay, and one-shot timers
  - Sensitivity adjustment
  - Timer adjustment via pot (0-50 ms DC, 0-10 s AC/DC)

**High Visibility LED Indication**

- Yellow LED indicates when light is received and flashes to indicate marginal excess gain
- Green LED for power status

**Fiber-optic models**

- Fiber-optic model compatible with glass fiber cables
- Single captive screw enables easy access to the controls

**Universal footprint thru-hole mounting**

- Quick disconnect (M12, 4-pin for DC or M12, 4-pin for AC/DC)

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>DC Models</th>
<th>AC/DC Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>5.5 VDC</td>
<td>5.5 VDC</td>
</tr>
<tr>
<td>Current</td>
<td>0.7 A DC</td>
<td>0.7 A DC</td>
</tr>
</tbody>
</table>

**Temperature Range**

- Operating: -22 °F to +158 °F
- Storage: -22 °F to +131 °F

**LED Display**

- Front Panel LED display

**Enclosures**

- IP67 housing
- Multipurpose, rugged
- Strong optical performance

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensing Range</td>
<td>Background Suppression Mode: 500 mm</td>
</tr>
<tr>
<td></td>
<td>Diffuse Mode: 2 m</td>
</tr>
<tr>
<td></td>
<td>Long-Range Diffuse Mode: 0 – 4 m</td>
</tr>
<tr>
<td></td>
<td>Polarized Retroreflective Mode: 0 – 1 m</td>
</tr>
<tr>
<td></td>
<td>Thru-Beam Mode: 0 – 20 m</td>
</tr>
</tbody>
</table>

**Product Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 x 4 x 1.15</td>
<td>Sheikh-Abid/2</td>
</tr>
<tr>
<td>24 x 9.5 x 8.5</td>
<td>Sheikh-Abid/2</td>
</tr>
<tr>
<td>26 x 11.3 x 8.8</td>
<td>Sheikh-Abid/2</td>
</tr>
</tbody>
</table>

**Electrical Connections**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Status LED</td>
<td>Status LED black +12 VDC, yellow LED expo. gain light is received indicates when power status LED is on.</td>
</tr>
</tbody>
</table>

**Environment**

- Ambient Light Resistance: ≤ 40,000 lux
- Temperature Range: -22 °F to +158 °F
- Humidity: 5% to 95% non-condensing

**Safety**

- Standards: EN 60947-5-2, CE, UL, cUL, cTUVus, TUVus, cETLus, GS, CB, VDE, UL508, NEMA 4X, cULus, FM Approved
- Listed: UL, TUVus, cETLus, FM, CE, cULus

**Material**

- Housing: PMMA, Lens: Polycarbonate