multifunctional fork light barrier
with adjustable gap
and external programming possibility
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with adjustable gap

A tried and tested sensor with a new concept
Up until now, fork light barriers of various dimensions have had to be provided for different applications. This resulted in high storage and procurement costs.
In the future, it is possible to cover the complete range of fork widths (from 5 to 85mm and/or 5 to 145mm) with one single, variable model.

Further highlights
✓ aluminium housing
✓ versions with infrared or red light
✓ a high level of external light shielding
✓ high sampling frequency
✓ directly stackable
✓ programmable in many ways

Automatic output regulation with a compensation mechanism for soiling
This ensures that the equipment can be put into service simply and quickly, without having to make further settings. After switching on, the through-beam sensor is automatically adjusted to the set fork width.
In addition, as soiling is permanently compensated for, constant sensitivity is assured.

Application options
By optimally adjusting the fork width, it is possible to securely identify a narrow slit in a thin washer as well as a part on a conveyor belt.
Due to its modular design, a subsequent change to the maximum fork width is also possible at a later stage.

Programming
For particular application cases, there are manual setting options and a teach function.
The switching output is programmable as a PNP, NPN or push-pull stage. In addition, pulse stretching can be set as well as light-on/dark-on mode.
Using the AO000199 PC interface, all settings are also possible via an optional Windows® program.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating distance</td>
<td>variable</td>
</tr>
<tr>
<td>Output signal</td>
<td>PNP / NPN</td>
</tr>
<tr>
<td>Resolution</td>
<td>1mm</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>12 ... 30V DC</td>
</tr>
<tr>
<td>Current consumption (w/o load)</td>
<td>≤ 20mA</td>
</tr>
<tr>
<td>Output current (max. load)</td>
<td>200mA</td>
</tr>
<tr>
<td>Voltage drop (max. load)</td>
<td>1.3V</td>
</tr>
<tr>
<td>Transmitting element (pulsed)</td>
<td>Red / infrared light</td>
</tr>
<tr>
<td>Wave length (transmitter)</td>
<td>650nm / 890nm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.1mm</td>
</tr>
<tr>
<td>Pulse stretching</td>
<td>0 / 1 / 10 / 1000sec adjustable</td>
</tr>
<tr>
<td>Display (signal)</td>
<td>Yellow LED</td>
</tr>
<tr>
<td>Sampling frequency</td>
<td>4kHz / 10kHz</td>
</tr>
<tr>
<td>Sensitivity adjustment</td>
<td>+</td>
</tr>
<tr>
<td>Short-circuit protection</td>
<td>+</td>
</tr>
<tr>
<td>Reverse polarity protection</td>
<td>+</td>
</tr>
<tr>
<td>Housing material</td>
<td>Black anodized aluminium</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 ... +60°C</td>
</tr>
<tr>
<td>System of protection (EN 60529)</td>
<td>IP67</td>
</tr>
<tr>
<td>Connection</td>
<td>M8-connector, 3-pin</td>
</tr>
<tr>
<td>Connection accessories</td>
<td>e.g. VK200075</td>
</tr>
</tbody>
</table>

### Easy to Adjust

- **Loosen the screw**: adjust gap
- **Tighten the screw**: press reset button

### Sampling Frequency

- **4kHz**
  - Transmitting light: Infrared (650nm) / Red (890nm)
  - OGV10570 / OGV10571 / OGV10575
  - OGV20570 / OGV20571 / OGV20575
  - OGV30570 / OGV30571 / OGV30575
  - OGV40570 / OGV40571 / OGV40575

- **10kHz**
  - Transmitting light: Infrared (650nm) / Red (890nm)
  - OGV10575 / OGV20575 / OGV30575
  - OGV40575

**Preferential types are printed** **bold.**
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