Limit Switch in stainless steel 1.4404/1.4571 for hygiene applications, high temperature version.

Base model OPG061
Product overview shown below

Technical Data
- Operating pressure: max. 25 bar
- Ambient temperature: -30 to 80°C
- Operating temperature: -30 to 175°C
- Material prism: quartz glass
- Measuring accuracy: ± 0.5 mm
- Min. distance sensor tip to any opposite wall: > 10 mm
- Mounting direction: any
- Process connections: 1¼" Clamp, 1.4404
  2" Clamp, 1.4404
  other types on request
- Material housing: parts contacting the medium: in stainless steel 1.4404
  parts out of medium: 1.4571

Electrical Data
- Supply voltage: 12...32 V DC
- Supply current max.: 40 mA
- Switch point number: 1
- Switch function: closer or opener
- Output: Protective
  DC PNP (200 mA)
- Protection class: IP65
- Electrical connection: PVC or PUR cable
  3 x 0.25 mm², coupler plug or plug M8, other types on request

Operating Principle
The opto-electronic sensor contains an infrared LED and a light receiver. Light from the LED is directed into a prism which forms the tip of the sensor. With no liquid present, light from the LED is reflected within the prism to the receiver. When rising liquid immerses the prism, the light is refracted out into the liquid, leaving little or no light reach the receiver. Sensing this change, the receiver actuates electronic switching within the unit to operate an external alarm or control circuit.

Connection diagram

<table>
<thead>
<tr>
<th>Pin assignment M8</th>
<th>Coupler plug DIN 43650</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Supply voltage +12...32 VDC</td>
<td>1 Supply voltage +12...32 VDC</td>
</tr>
<tr>
<td>3 0</td>
<td>2 0</td>
</tr>
<tr>
<td>4 Output +12...32 / 0 VDC</td>
<td>3 Output +12...32 / 0 VDC</td>
</tr>
</tbody>
</table>

With reservation of technical modifications

LSD061E / 2015.10
Product overview / order table

OPG061  Process connection
A Clamp 1½”
B Clamp 2”
X Other types on request

Electrical connection
2P Connection cable: 2 m PVC 3 x 0.25 mm²,
2U Standard other cable length: dimensions in m
M8 Plug M8
W Coupler plug DIN 43650
X Other types on request

Switch function
S Closer (in medium closed, 12 – 32 V DC)
O Opener (in medium opened, 0 V DC)

Sensitivity
A Sensitivity not adjustable (please specify the medium)
T Sensitivity adjustable (with poti)

Example: Process connection clamp 2”, 2 m PVC cable, closer, sensitivity not adjustable: OPG061-B2PSA

Characteristics
• No moving parts
• Operating temperature: +175°C
• Simple to install
• Mounting direction: any
• Parts contacted with the medium are made of 1.4404
• Long service life
• High reliability
• Measuring accuracy ± 0.5 mm
• Electrical connection: cable connection or plug
• Output PNP
• Closer or Opener
• Adjustable sensitivity for any application
  (e.g. foam detection)

Areas of application
• Food industry
• Pharmaceutics

Areas of application

Accessories: Circular plugs M8

<table>
<thead>
<tr>
<th>Type</th>
<th>Order n°</th>
<th>Design</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female plug M8 with</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 m PVC cable</td>
<td>K8PVC 2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5 m PVC cable</td>
<td>K8PVC 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2 m PUR cable</td>
<td>K8PUR 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 m PUR cable</td>
<td>K8PUR 5</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Female plug M8, angle type with</td>
<td>2 m PVC cable</td>
<td>W8PVC 2</td>
<td></td>
</tr>
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