Level limit switch in stainless steel 1.4404 for hygiene applications with variable probe length

Base model OPG06
Product overview shown below

Technical Data
Operating pressure max. 25 bar
Ambient temperature -25 to 70°C
Operating temperature -30 to 100°C temporary up to max. +125°C
Measuring accuracy ± 0.5 mm
Material housing stainless steel 1.4404
Material prism quartz glass
Mounting direction any
Min. distance sensor tip to any opposite wall > 10 mm
Process connections BSPP 1½” clamp, 2” clamp, other types on request
Sensor tube Ø 13 mm, 1.4404
Sensor length L min. 65 mm max. 1000 mm

Electrical Data
Supply voltage 12...32 VDC
Supply current max. 40 mA
Switch point number 1
Output Protective DC PNP (200 mA)
Switch function closer or opener
Protection class IP65
Electrical connection cable PVC and PUR 3 x 0.25 mm² or plug M12, other types on request

Operating Principle
The electro-optic 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>OPG06</th>
<th>brown</th>
<th>Supply voltage +12...32 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>white</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>green</td>
<td>Output +12...32 / 0 VDC</td>
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</table>

Pin assignment M12

<table>
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<tr>
<th>Pin</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Supply voltage +12...32 VDC</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>Output +12...32 VDC</td>
</tr>
</tbody>
</table>

With reservation of technical modifications
Product overview / order table

**OPG06**

**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, Standard
  - other cable length: dimensions in m
- 2U Connection cable: 2 m PUR 3 x 0.25 mm², Standard
  - other cable length: dimensions in m
- M12 Plug M12
- X Other types on request

**Switch function**
- S Closer (in medium closed, 12 - 32 VDC)
- O Opener (in medium open, 0 VDC)

**Sensitivity**
- A Sensitivity not adjustable (please specify the medium)
- T Sensitivity adjustable (with potentiometer)

**Sensor length L**
- Dimensions in mm
  - (length from sealing face of process connection, L min.=65 mm, L max.=1000 mm)

**Example:** Process connection clamp 2", 2 m PVC cable, closer, sensitivity not adjustable, Length 500 mm: OPG06-B2PSA0500

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**Characteristics**
- No moving parts
- Wetted parts 1.4404
- Easy mounting
- Mounting direction: any
- High reliability
- High life expectancy
- Measuring accuracy ± 0.5 mm
- Electrical connection: cable connection, plug M12 or angular plug
- Output PNP
- Close or Open
- Adjustable sensitivity for any application
- Variable sensor length: min 65 mm, max. 1000 mm

**Areas of application**
- Food
- Pharmaceutical

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**Accessories: Circular plugs M12**

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<th>Type</th>
<th>Order n°</th>
<th>Design</th>
<th>Colour</th>
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</thead>
<tbody>
<tr>
<td>Female plug M12 with</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2 m PVC cable</td>
<td>K12PVC 2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5 m PVC cable</td>
<td>K12PVC 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2 m PUR cable</td>
<td>K12PUR 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>5 m PUR cable</td>
<td>K12PUR 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Female plug M12, angle type</td>
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<tr>
<td>with 2 m PVC cable</td>
<td>W12PVC 2</td>
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With reservation of technical modifications

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