DESCRIPTION
The Vibra-Switch "C" is a rugged and compact level switch based on a vibrating probe. It can be used to produce a high or low level signal as well as pump control in all fluid types. Due to the high vibration frequency combined with the very rugged probe, the function will not be influenced by turbulence, air bubbles or system vibration. For all available process connections, please refer to ordering code on page 2. Insertion lengths for the units vary between 47 mm to 3 metres.
### SPECIFICATIONS

- **Power supply**: 12 - 40 Vdc
- **Output**: 3-wire PNP / NPN
- **Temperature**: -40° C to +100° C
- **Ambient temperature**: -40° C to + 70° C
- **Max. pressure**: -1 to +40 bar
- **Max. viscosity**: 10,000 mm²/s (cSt)
- **Material probe**: AISI 316L (Ra < 1.5 µm)
- **Insertion length**: 47 mm, 100 mm... 3 m.
- **Protection**: Connector IP65 cable IP68
- **Switch indication**: by LED
- **Process connections**: G1" (1"BSP) Standard for others, see order code

*Specifications can change without notice*

### APPLICATIONS

**Application examples are:** (see drawing)
- Max. level detection in tank
- Min. level detection in tank
- Dry run protection of pumps
- Long version with extended insertion length for min./max. level detection.

### MATERIALS

- Special PVC
- EPDM
- AISI 316
- Polyamide

### DIMENSIONS

**Extended model**

**Short model**

### ORDERING CODE

- **PROCESS CONNECTIONS**
  - 1" BSP (standard) S
  - Milk coupling DN 40 (DIN 11851) M40
  - Milk coupling DN 50 M50
  - Tri clamp (1½" or 2") L2"*
  - Flange (Specify size) F
  - Special connection X

- **INSERTION LENGTH**
  - SHORT (47 mm)* 47
  - Standard (100 mm) 100
  - 0.2 to 3 meter 0.2...3

- **OUTPUT**
  - 3-wire PNP / NPN connector 3
  - 3-wire PNP / NPN cable 4

* Insertion length with Tri-clamp process connection is 52 mm.
* Flanged connections are supplied with Vibra Switch, screwed (1"BSP) in flange.
The Vibra-Switch “S” is a rugged and compact level switch based on a vibrating probe. It can be used to produce a high or low level signal as well as pump control in all fluid types. Due to the high vibration frequency combined with the very rugged probe, the function will not be influenced by turbulence, air bubbles or system vibration. For all available process connections, please refer to ordering code on page 2. Insertion lengths for the units vary between 47 mm to 3 metres. Available options are: Intrinsically safe, Halar (ECTFE) coated or highly polished probes (Ra < 0.5 µm).
### Specifications

- **Power supply**: 20 - 255 Vac
  12 - 55 Vdc
- **Output**: 2-wire AC or DC
  3-wire PNP / NPN
- **Processtemperature**: -40° C to +120° C
- **Ambient temperature**: -40° C to +70° C
- **Max. pressure**: -1 to +40 bar
- **Max. viscosity**: 10,000 mm²/s (cSt)
- **Material probe**: AISI 316L (Ra < 1.5 µm)
- **Insertion length**: 47 mm, 100 mm... 3 m.
- **Protection**: IP67
- **Switch indication**: by internal LED
- **Process connections**: G1" (1"BSP) Standard
  for others, see ordercode

*Specifications can change without notice*

### Applications

Application examples are: (see drawing)
- Max. level detection in tank
- Min. level detection in tank
- Dry run protection of pumps
- Long version with extended insertion length for min./max. level detection.

### Ordering Code

**VSS**

<table>
<thead>
<tr>
<th>PROCESS CONNECTIONS</th>
<th>CODE</th>
<th>INSERTION LENGTH</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; BSP (standard)</td>
<td>S</td>
<td>SHORT (47 mm)*</td>
<td>47</td>
</tr>
<tr>
<td>1&quot; NPT</td>
<td>N</td>
<td>Standard (100 mm)</td>
<td>100</td>
</tr>
<tr>
<td>Milk coupling DN 40</td>
<td>M40</td>
<td>0.2 to 3 meter</td>
<td>0.2...3</td>
</tr>
<tr>
<td>Milk coupling DN 50</td>
<td>M50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tri clamp (1½&quot; or 2&quot;)</td>
<td>L2*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flange (Specify size)*</td>
<td>F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special connection</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Insertion length with Tri-clamp process connection is 69 mm.

* Flanged connections are supplied with Vibra Switch, screwed (1"BSP) in flange.

### Options

- **Highly polished Ra < 0.5 µm**: P
- **Halar (ECTFE) coated**: E

### Dimensions

**Extended model**

**Short model (47 mm)**

**Standard model (100 mm)**