Side mounted switches for high or low alarm duties (incl. gasket)

Nominal pressure  PN 10
Operating temperature  0 to 150°C
Ambient temperature  0 to 70°C
Density of the liquid  min. 0.7 kg/dm³
Operating differential  12 mm, fixed
Wetside material  Stainless steel (CrNiMo)
Flange material  Stainless steel (CrNiMo)
Housing material  seawater resistant die cast aluminium
Flange  square 92 x 92 mm, 92 mm PCD
Switch element  Microswitch SPDT with silver contacts
Switch rating  250 VAC, 3 A   30 VDC, 0.5 A
Enclosure  IP65
Weight  approx. 0.9 kg
Cable entry  M20 x 1.5
Safety Integrity Level (SIL)  SIL 1

Option: Type DC 01C 05
Operating temperature  0 to 120°C
Enclosure  IP67
(All other technical data as type C 01C 05)

Counterflange with and without test actuator

The simplest method of installing any Trimod Besta Compact switches is to use our standard weld-on counterflanges. There are two different lengths of counterflanges in C22.8 carbon steel or 1.4404 stainless steel, with or without test actuator.
The test actuator allows a periodic manual function check of the level switch in operating status. The function of the switching element and movement of the float can be tested.

Counterflange

<table>
<thead>
<tr>
<th>Type</th>
<th>Flange length</th>
<th>Flange material</th>
<th>Stud material</th>
<th>Stud length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2829.1</td>
<td>V = 38 mm</td>
<td>C22.8</td>
<td>5.8</td>
<td>30 mm</td>
</tr>
<tr>
<td>2831.3</td>
<td>V = 38 mm</td>
<td>1.4404</td>
<td>A2</td>
<td>30 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
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<th>Stud material</th>
<th>Stud length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2829.1V80</td>
<td>V = 80 mm</td>
<td>C22.8</td>
<td>5.8</td>
<td>30 mm</td>
</tr>
<tr>
<td>2831.3V80</td>
<td>V = 80 mm</td>
<td>1.4404</td>
<td>A2</td>
<td>30 mm</td>
</tr>
</tbody>
</table>
Counterflange V=50 mm, with test actuator

**Important:** Positioning of counterflanges with G 3/8” thread for test actuator.

If the level switch is used for high alarm the thread has to look upwards. 
For a low level alarm, the thread has to look downwards.

<table>
<thead>
<tr>
<th>Type</th>
<th>Flange material</th>
<th>Stud material</th>
<th>Test actuator material</th>
<th>O-ring</th>
</tr>
</thead>
<tbody>
<tr>
<td>2865</td>
<td>C22.8</td>
<td>5.8</td>
<td>1.4305/1.4404</td>
<td>FPM</td>
</tr>
<tr>
<td>2866</td>
<td>C22.8</td>
<td>5.8</td>
<td>1.4305/1.4404</td>
<td>EPDM</td>
</tr>
<tr>
<td>2868</td>
<td>1.4404</td>
<td>A2</td>
<td>1.4305/1.4404</td>
<td>FPM</td>
</tr>
<tr>
<td>2869</td>
<td>1.4404</td>
<td>A2</td>
<td>1.4305/1.4404</td>
<td>EPDM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Test actuator material</th>
<th>O-ring</th>
</tr>
</thead>
<tbody>
<tr>
<td>2380</td>
<td>Prüfbetätiger</td>
<td>FPM</td>
</tr>
<tr>
<td>2381</td>
<td>Prüfbetätiger</td>
<td>EPDM</td>
</tr>
</tbody>
</table>

**Temperature range**
- Counterflange: Material C22.8: -10 to 300°C, Material 1.4404: -196 to 400°C
- Test actuator with FPM O-Ring: 0 to 150°C
- Test actuator with EPDM O-Ring: -30 to 150°C
- Operating pressure: -1 to 25 bar

**Float chambers**

For external mounting (bypass) of level switches with a square flange. This type of mounting allows functional checks and servicing without interruption of operation if shut-off and drain valves are available in the supply lines. The float chambers are available in different designs and materials.

**Services and Q certifications**
- Test report in accordance with EN 10204-2.2
- Inspection certificate in accordance with EN 10204-3.1
- Non destructive testing such as ultrasonic, x-ray, dye penetrant or magnetic particle examination
- Material testing including charpy, tensile and hardness
- Design-examination for PED in accordance with 97/23/EC
- Coatings

**Chambres standards PN 25**
- Types: acc. to float chamber brochure
- Process connection: DN 25, 50 in acc. with DIN, DN 1", 2" in acc. with ANSI
- Materials: Carbon steel, high temperature steel, CrNi steel, CrNiMo steel
- Flange facing of process connection: in acc. with DIN 2526 in acc. with ANSI B16.5

**We have the following available**
- Procedure qualification record: AD 2000-HP2/1
- Approved welders in accordance with: AD 2000 HP3
- Approval for material transfer stamping in accordance with: SVTI 201/507

**Options**
- Special dimensions
- Vent and drain connection
- Long studs for mounting a test actuator
- Float chambers for low temperature applications
- Float chambers with max. hardness of HRC 22 in accordance with NACE

**Certificates**
- Material certificates acc. to EN 10204-2.2 & EN10204-3.1
- Test record: hydraulic pressure test and functional tests
- Test records of material tests: X-ray, ultrasonic, charpy, hardness etc.

**Quality Assurance**
- Besta Ltd. is certified acc. to ISO 9001.