

# Bilge Level Switch

## UNS-VA/SB4/5 Bilge Guard

Level switch with and without test function

### Features

- Rugged and sturdy design for bilge monitoring

### Applications

- Shipbuilding
- Sewage works
- Yacht building



### Technical Data

|                                                                         |                                                                                                                                                                       |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials<br>Stem, bracket, float chamber:<br>Float<br>Cable<br>Cap nut | Stainless steel<br><br>PE<br>Polymer, halogen-free, UL-V0<br>PA                                                                                                       |
| Operating Pressure                                                      | max. 3 bar (float / +20 °C)                                                                                                                                           |
| Temperature range                                                       | max. -20 °C ... +70 °C                                                                                                                                                |
| Fluid specific gravity                                                  | min. 0.80 g/cm <sup>3</sup>                                                                                                                                           |
| Immersion depth<br>at density 1<br>at density 0.8                       | 28 ±2 mm L1 ~18 mm<br>35 ±2 mm L1 ~11 mm                                                                                                                              |
| Mounting position                                                       | vertical ±15°                                                                                                                                                         |
| Protection class                                                        | IP67, IP68                                                                                                                                                            |
| Electrical connection                                                   | Polymer cable, 2 x 0.75 mm <sup>2</sup>                                                                                                                               |
| Cable length                                                            | 2 m / 5 m / 10 m / 15 m                                                                                                                                               |
| Contact type*                                                           | SPST switch (NO) (marking at bottom)<br>By turning the float upside down:<br>SPST switch (NC) (marking at top)                                                        |
| Contact rating                                                          | max. 230 V AC / DC<br>max. 2.0 A<br>max. 40 VA / W                                                                                                                    |
| Weight                                                                  | SB4: approx. 175 g / SB5: approx. 180 g                                                                                                                               |
| Approvals                                                               | DNV, BV, RINA, LR                                                                                                                                                     |
| EX approval                                                             | IECEX TUN 17.0039X<br>TÜV 18 ATEX 214370 X<br>II 1 G Ex ia IIC T6 Ga or<br>II 1/2 G Ex ia IIC T6 Ga/Gb or<br>II 2 G Ex ia IIC T6 Gb or<br>II 1 D Ex ia IIIC T100°C Da |

### Order Code

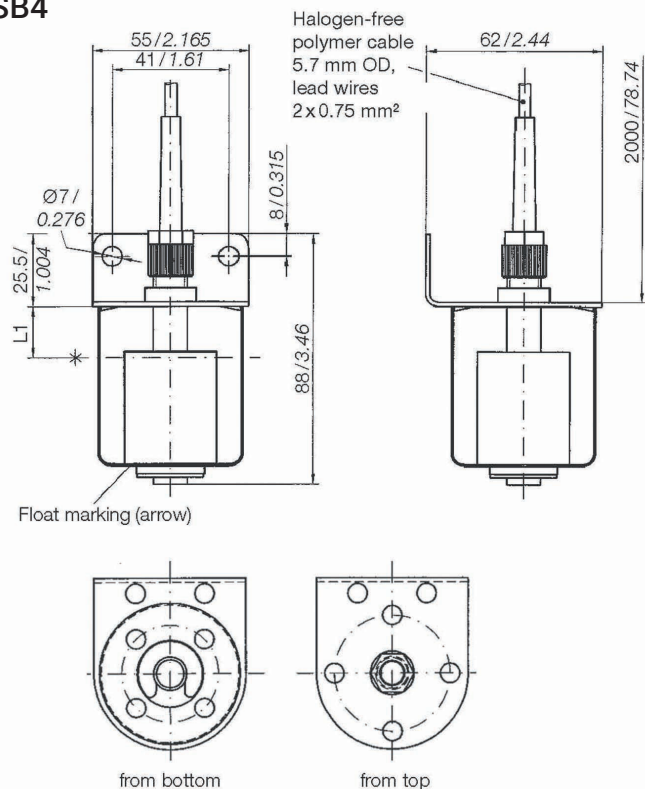
| Type                      | Contact type | Cable type/length | Order No. |
|---------------------------|--------------|-------------------|-----------|
| UNS-VA/SB4<br>Bilge Guard | NO (NC)      | Polymer / 2 m     | 0111-509  |
|                           | NO (NC)      | Polymer / 5 m     | 0111-529  |
|                           | NO (NC)      | Polymer / 10 m    | 0111-660  |
|                           | NO (NC)      | Polymer / 15 m    | 0111-528  |
| UNS-VA/SB5<br>Bilge Guard | NO (NC)      | Polymer / 2 m     | 0111-510  |
|                           | NO (NC)      | Polymer / 5 m     | 0111-652  |
|                           | NO (NC)      | Polymer / 10 m    | 0111-531  |
|                           | NO (NC)      | Polymer / 15 m    | 0111-534  |

| Type                                      | Contact type | Cable type/length | Order No. |
|-------------------------------------------|--------------|-------------------|-----------|
| UNS-VA/SB4<br>Bilge Guard -<br>EX Version | NO (NC)      | Polymer / 2 m     | 0111-669  |
|                                           | NO (NC)      | Polymer / 5 m     | 0111-653  |
|                                           | NO (NC)      | Polymer / 10 m    | 0111-698  |
|                                           | NO (NC)      | Polymer / 15 m    | 0111-718  |
| UNS-VA/SB5<br>Bilge Guard -<br>EX Version | NO (NC)      | Polymer / 2 m     | 0111-537  |
|                                           | NO (NC)      | Polymer / 5 m     | 0111-716  |
|                                           | NO (NC)      | Polymer / 10 m    | 0111-765  |
|                                           | NO (NC)      | Polymer / 15 m    | 0111-760  |

\* The contact types (NO or NC) are defined on the basis of dry position of float and cable pointing vertically upwards.

## Dimensions (mm / inch)

### SB4

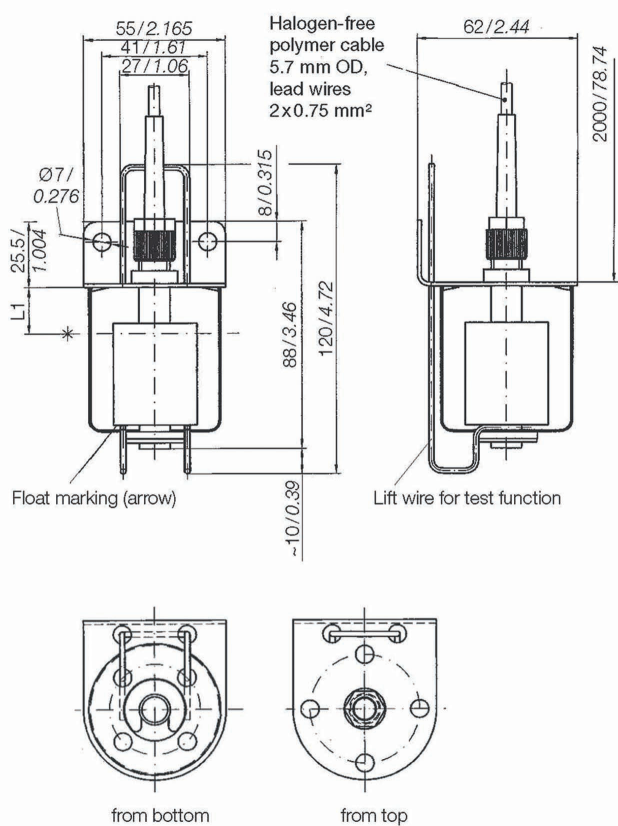


### SB4

Color code  
NO (NC)



### SB5



### SB5

Color code  
NO (NC)

