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## **Level Switch for Shipping and Industry**

**Model: LSB**



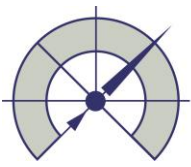
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### **Brief description of the level switch LSB**

UAD bilge float switch are designed for general usage on ships and industrial puposes. These bilge switches are primalily for extremely high mechanical load and especially dirty liquids such as found in e.g. in bilge wells, in tanks for hydraulic and diesel oil, in fresh water tanks etc. .

Bilge switches have a protective casing that, on the one hand, reduces the movements and turbulence of the medium and on the other, also guarantees functionality even when foreign bodies are present in the waste water.

A bracket is mounted on the protective casing that serves to fix the bilge switch. It can installed with the cabel leading both upwards or downwards.



### **Features of the level switch LSB**

- signal transmission of the switch point by magnets in the level switch body to the reed switch
- switch is built very robustly, consists of type 1.4571 high-grade steel
- use of the level switch is possible in various operational and environmental conditions, due to the materials it consists of
- the electric switch mechanism and the inserted mechanic switch-point transmission are long-lived and reliable
- easy installation and, therefore, easy replacement, for all basic unit assembly groups
- vibration and impact strength are high
- type IP68 protection is part of the standard package
- all suppliers hold ISO certificates



### **Advantages of the level switch LSB**

- test equipment for mechanic control of switching function integrated in the level switch body (see Figure 1)
- material used for the level switch is type 1.4571 high-grade steel
- all parts made of high-grade steel have been pickled after welding to avoid potential corrosion
- because of the materials used, this level switch can be used in drinking water, according to the new regulations
- type IP68 protection is part of the standard package
- there are material approvals available for all materials used (3.1B, etc.)



**Figure 1**





## Function and mode of operation of the level switch LSB



A magnet in the level switch body changes its position, rising and falling with the changing level of the liquid in the tank / container. In doing this, the magnet repels a reed switch.



### Choice of level switch LSB

When choosing a certain type of level switch, the following parameters have to be stated, so that the chosen type can be adapted to the application in question:

- place of installation
- protection type
- specific weight of liquid
- type of liquid (degree of dirtiness, degree of aggressiveness, chemical characteristics)
- pressure inside and outside the container
- temperature of liquid and temperature of environment
- humidity





### Materials

level switch body:.....	type 1.4571 high-grade steel
float unit:.....	type 1.4571 high-grade steel
switch body:.....	type 1.4571 high-grade steel
cable gland:.....	type 1.4571 high-grade steel
smaller parts:.....	type 1.4571 high-grade steel
jointing material:.....	oil- and waterproof

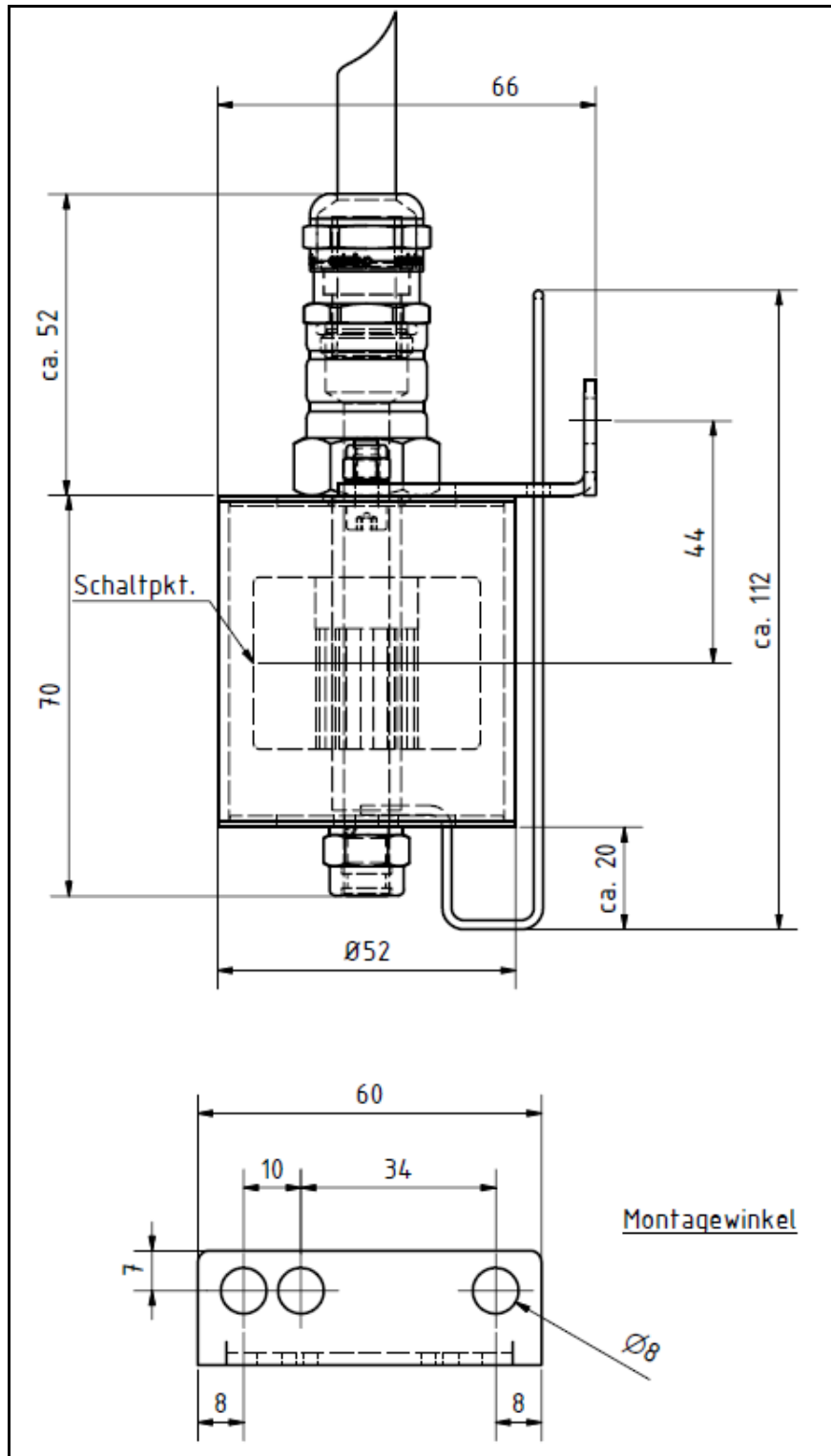


### Technical Data

float:.....	VA52, Ø = 52 mm
max. pressure:.....	10 bar
max. temperature:.....	-20°C to +80°C
min. fluid specific gravity:.....	0,70 g/cm <sup>3</sup>
mounting:.....	bracket
protection type:.....	IP 68
electrical connection:.....	cable for shipbuilding or navy
contact mode:.....	1 – NO 2 – NC 3 – WE
contact rating:.....	1 – 250 V AC/ 3,0 A/ 100 VA 2 – 250 V AC/ 3,0 A/ 100 VA 3 – 250 V AC/ 1,0 A/ 60 VA
weight:.....	ca. 735 g



## Mechanical Construction





**UAD-LSB**

