



Level Switches BS 70... , BS 71...

– Technical Specifications:

| | | | |
|------------------------|---|---|-----------------------|
| Max. performance | : | 30 V / 100 mA / 0.75 W | |
| (acc. to version) | : | 60 V / 30 mA / 0.45 W | |
| Temperature range | : | -20° to +60°C | |
| Dimensions | : | BS 70 = 163.5 x 32 mm | Weight: approx. 430 g |
| (floating body) | : | BS 71 = 163.5 x 55 mm | approx. 110 g |
| Immersion depth | : | BS 70 - floats on the surface | |
| | | BS 71 - in standard form sinking to a depth of 1.5 m | |
| | | in water (immersion depth also variable if required) | |
| Installation position: | : | suspended on cable | |
| Switching function : | : | switching over on passing through the horizontal | |

– Type of Explosion Protection:

| | | | |
|---|-------|---------------|--------------------|
|  | I M2 | EEx ia I | IBExU 99 ATEX 1093 |
|  | II 2G | EEx ia IIC T6 | IBExU 99 ATEX 1093 |

Degree of enclosure protection: IP 68

– Installation and Connection

The level switches of type BS 70... and BS 71... may be installed in any position. In order to ensure optimum functioning the cable is fixed near the floating body on the level where the switching function is supposed to occur.

When connecting the level switch it has to be watched that the switching contacts are only operated with an intrinsically safe power source. Operating voltage, current and wattage must not exceed the maximum performance values (see above).

In order not to impair the intrinsic safety by electromagnetic fields the connecting leads have to be laid at a minimum distance of 50 mm to non-intrinsically safe leads (intrinsically safe and non-intrinsically safe cables must not be laid together in a bunch or inside a cable duct). It has to be ensured that the intrinsically safe cable is not influenced by electromagnetic fields.

Furthermore, the cable has to be clearly marked as intrinsically safe cable.

– Repair and Maintenance

Repairing of defect appliances is not possible because of constructional reasons.

Damaged cables may be shortened up to the damaged part in order to continue using the level switches.