



- internally weighted float
- for level control in shafts, tanks, basins
- available with a choice of connecting cables
- normally open, normally closed or changeover contact, with or without protective earth (PE)

## Float Switch EHZ B

The EHZ B is a mechanically activated, internally weighted float switch designed for level control in shafts, tanks, basins or similar. It is available with a choice of connecting cables which are resistant to water and waste water, oils and fats, many acids and bases. The internal microswitch is a „bi-level“ switch with gold-plated contacts, suitable for small currents and voltages (e.g., Ex-i application). If the switch is operated with higher currents (> 100mA), the gold layer will dissolve. The switch then normally switches higher currents and voltages according to specification. It can be wired as normally open, normally closed or changeover contact and with or without protective earth (PE).

### Technical Data

- |                          |   |                        |                    |
|--------------------------|---|------------------------|--------------------|
| • Float Colour:          | orange                                      | • Activation angle:    | +/- 15°            |
| • Standard cable:        | H07RN8-F 3G1 black                          | • Dimensions:          | Ø 85mm x 140mm     |
| • Min. electric load:    | 1mA 4V DC                                   | • Volume:              | 410cm <sup>3</sup> |
| • Max. electric load:    | 5 A 250V AC                                 | • Weight:              | 380g               |
| • Switching cycles:      | min. 50'000                                 | • Buoyancy (in water): | 30g                |
| • Operating temperature: | max. 40°C in water<br>(with standard cable) | • Housing:             | Polypropylene      |
| • Storage temperature:   | max. 95°C                                   | • Protection class:    | IP68               |
|                          |   | • Certifications:      | CE                 |

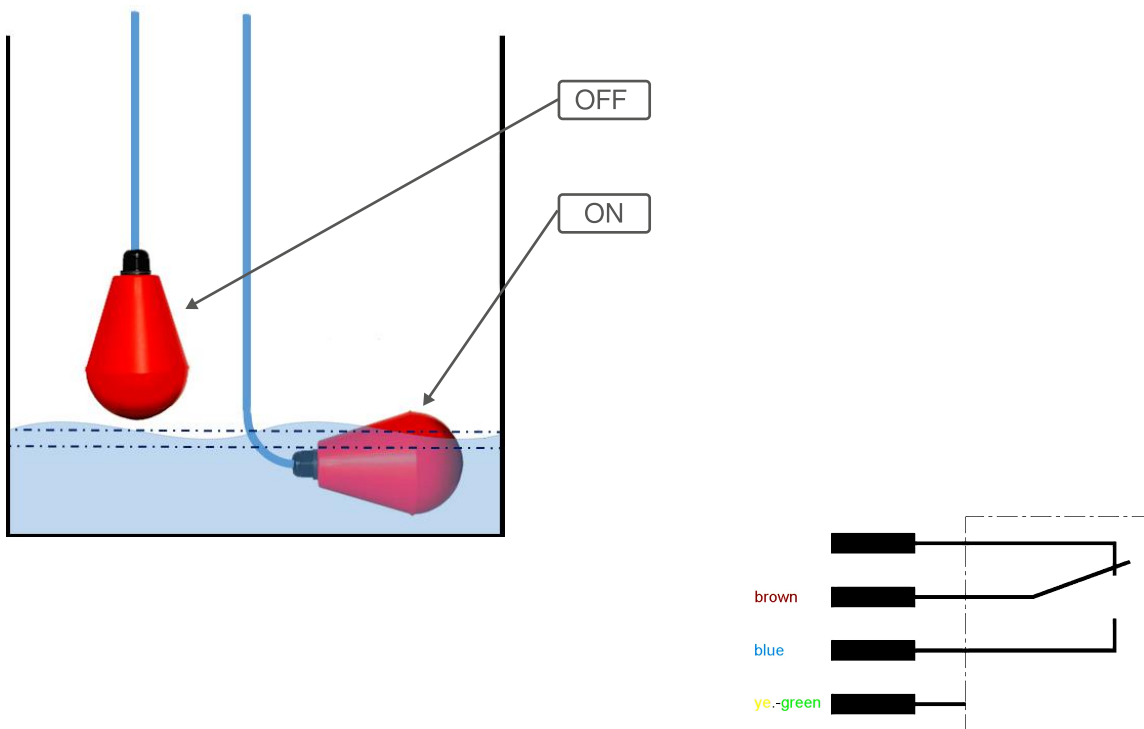
## Cable Types

Examples of connecting cables for the EHZ B float switch. Depending on the application, cables with or without protective earth (PE) can be supplied. The information on media resistance is a guideline and tests may be required. For more details, please contact us.

H07RN8-F 3G1 black	Standard cable with PE resistant to water/sewage water
H07RN8-F 4G0,75 black	Standard cable with PE for changeover switches, resistant to water/sewage water
H07RN-F 2x1 blue	Cable without PE, resistant to water/sewage water, for EX-I applications
Polyurethane sheathing (H05BQ-F 3G1) yellow TPE sheathing (TPE/TPE) 3G1 and 4G1 green	Resistant to media containing oils and fats, acids, bases and several chemical agents
Silicone sheathing (Heat 180 EWKF 3G1)	Resistant to high temperatures

## Schematic (standard configuration)

The EHZ B float switch is suspended from above with the connecting cable and has a switching hysteresis of approximately 2cm. As the counterweight is integrated, no separate weight or mounting is required.



## Notes

EHZ float switches are designed and manufactured according to general rules of technology and considered as safe to operate. They must, however, be installed by trained personnel. In case of damage to the connecting cable, the complete device has to be replaced.