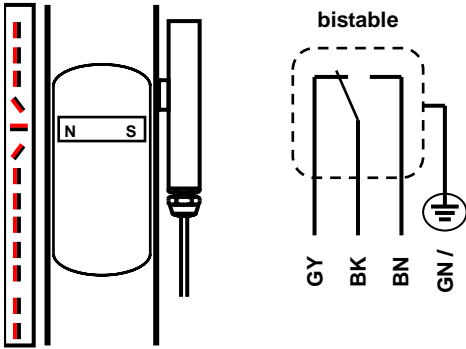
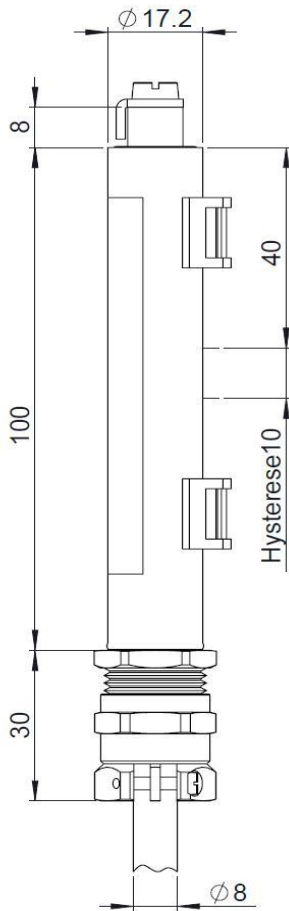


External electrical connections



- Installed opposite to indication rail
- Cable exit downwards

Dimensions



Instruction manual

Function Magnetic switch for WEKA- VLI

The magnetic switch is mounted outside of the float chamber opposite to the indication rail. The switching logic can be reversed by inverting the switch module with cable-exit upwards or by installing the switch module adjacent to the indication rail (see datasheet 20010501).

The magnet inside the float activates the reed switch, when the liquid in the float chamber reaches that level.

Please refer to the safety guidelines.

| | | |
|---------------------|------------------------------|----------------|
| Product code | (standard) 31160-ND/3 | with 3m cable |
| | 31160-ND/5 | with 5m cable |
| | 31160-ND/10 | with 10m cable |
| | 31160-ND/20 | with 20m cable |

Switching logic

Change-over, bistable

| | | |
|-----------------------|------|------|
| Contact rating | max. | 230V |
| | max. | 1A |
| | max. | 60VA |
| | max. | 60W |

Certificate ZELM 03 ATEX 0190 / IECEx ZLM 14.0002

Enclosure IP68 - 10bar (EN 60529)

Material

| | |
|--------------|---|
| Housing | Stainless steel 316 /316L |
| Cable gland | Brass: nickel-plated, 7...9mm |
| Seal | Perbunan (NBR) |
| Cable | Silicon: red, Ø 8.0mm, largely resistant to oils/petroleum products |
| Shield | not shielded |
| Cable cores | 4 x 1,0mm ² (3 + PE) |
| Core colours | BN, GY, BK, GN/YE |
| Type label | Polyester: silver, black printing |

Operating conditions

| Media temperature | Ambient temperature | Temperature class |
|-------------------|---------------------|-------------------|
| -50°C...+150°C | -20°C...+80°C | T3 (200°C) |
| -50°C...+135°C | -20°C...+80°C | T4 (135°C) |
| -50°C...+100°C | -20°C...+80°C | T5 (100°C) |
| -50°C...+85°C | -20°C...+80°C | T6 (85°C) |

| | |
|---------------------|--|
| Media temperature | Temperature of liquid within the float chamber |
| Ambient temperature | Temperature of air around the magnetic switch |
| Temperature class | Specified max. surface temperature |

Grounding

A connection to protection ground is only guaranteed if both fastening clamps are used to fix the magnetic switch to the float chamber. If the float chamber does not have electrical continuity to protective ground, or if only one fastening clamp can be used for fixing the switch, the connection must be made with the foreseen screw clamp of the switch.

Fixation

When ordering level indicators with switches, hose clamps are included.

When ordering switches as spare parts, hose clamps are never included and must be ordered separately.

Only genuine parts have to be used as spare parts. In case of ordering hose clamps pipe size must be indicated:

| | | | |
|-------------------|-------------------------|-------------|-------|
| For pipe diameter | 30...40mm | Article no. | 80648 |
| For pipe diameter | 40...57mm and 57...80mm | Article no. | 84043 |

Note

EC- Type-Examination Certificate resp. IECEx CoC has additionally to be considered.

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The cable must be durably installed. This device is maintenance free and repair work is prohibited.

For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.

Only to use in combination with thermal non-insulated float chamber.