

Magnetic switch

Functional description of magnetic switch

The magnetic switch consists of an enclosure and a contact unit. It is used as a limit switch for various fill levels and to monitor the gas filling pressure when the magnetic level indicator is in continuous operation.

The switch is operated by the permanent magnet of the level indicator's cylindrical float. The output signal can be used by downstream signalling and control equipment.

Construction

Housing:	anodised aluminium
Connection cable:	1 m PVC
Contact function:	switch
Switching behaviour:	bistable
Switching power:	230V AV / 60 VA / 1.0 A / 30V DC /30 VA/0.5 A
Degree of protection:	IP65

Other versions available on request.

Temperature range

Standard 0 °C to +80 °C.

Other temperature ranges available on request.

Electrical connection

Lay cable from the signalling and control equipment to the magnetic switch and connect it to the connection cable (see circuit diagram).

Provide sufficient cable for positioning!

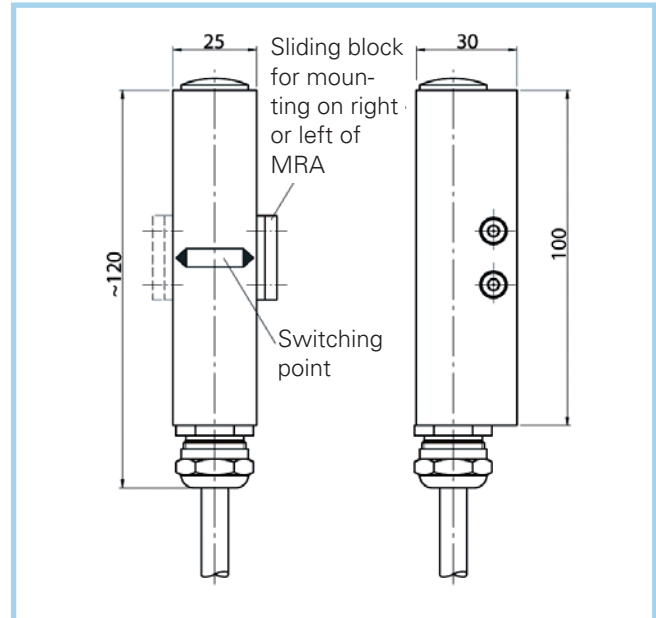
The electrical connection must be implemented in accordance with the valid safety regulations for setting up electrical installations and must be performed by specialist personnel only. The service life of the switch can be significantly increased through the use of a contact protection relay.

Positioning/start-up

The min. level (bottom) and max. level (top) magnetic switches must be positioned on the magnetic level indicator outside of the normal operating points of the system. These switches should only react in the event of unusual operating failures, e.g. bladder losing gas. This function can only be guaranteed if the magnetic switches are correctly connected on site! We recommend that you have ORELL personnel perform the positioning and commissioning.

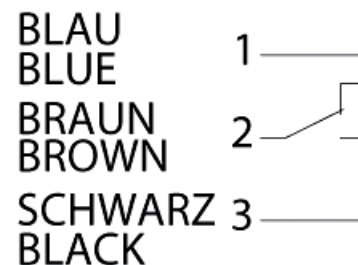
Notes for assembly

Provide sufficient cable for positioning the switches on the magnetic level indicator!



Circuit diagram

Switch



General notes

- Do not operate magnetic switches in close proximity to strong electromagnetic fields, distance at least 1 m.
- Magnetic switches must not be exposed to any mechanical stresses, vibrations or impact. If such stresses are present, insulating elements must be used.
- If the medium is at risk of explosion, devices that meet ATEX directive 94/9/EC must be used.

For further details, see the enclosed assembly and operating instructions.