en Translation of mounting instructions

ST 628-0-22

LEVEL SENSOR

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1 ASSEMBLY INSTRUCTIONS

Level sensor	
Part number:	74112299682
Drawing number:	ST628-0-22

1.1 SHORT DESCRIPTION

- Level limit switch based on the float principle with magnetic transmission via reed contact
- Process connection G 3/4" external thread
- Fixed cable outlet, 0.1 m with TE connector plug
- 1 switching point - normally open (NO) - open when empty

1.2 SAFETY INSTRUCTIONS

1.2.1 INTENDED USE OF THE PRODUCT

- The reed contact float switch is manufactured exclusively for the intended use described here and may only be used in this way.
- The technical specifications in these operating instructions must be observed.
- Improper handling or operation of the device outside the technical specifications makes it imperative that the reed contact float switch be shut down immediately and that the sensor function be checked by the manufacturer.
- If the device is transported from a cold to a warm environment, condensation may cause a temporary delay or malfunction of the device. Before putting the device into operation again, wait for the device temperature to adjust to the room temperature.

NOTE
Claims of any kind are excluded due to improper use.

1.2.2 PERSONNEL QUALIFICATION

Improper handling of the reed contact float switch can lead to considerable personal injury and damage to property. The activities described in these operating instructions may therefore only be carried out by qualified personnel with the appropriate qualifications. For installation and commissioning of the reed contact float switch, the relevant country-specific directives and standards must be observed.

Depending on the application, contact with aggressive media may occur, particularly during installation of the float switch. Therefore, appropriate safety precautions and protective measures (e.g. wearing protective goggles, gloves, etc.) must be taken if necessary.

There is a risk of fatal injury if live parts are touched. The electrical installation and commissioning must only be carried out by qualified and trained personnel. In accordance with the safety regulations of the DIN VDE 0105 series of standards, the system must be disconnected before all electrical work and secured against being switched on again. The system must then be de-energised, earthed and short-circuited.

Live parts must be covered.

1.2.3 SPECIAL DANGERS

The devices must not be used in safety or emergency stop equipment. Incorrect use or improper

operation of the device can lead to injuries.

Residual media on or in dismantled devices can endanger persons, the environment and equipment. Sufficient precautions must therefore be taken before dismantling if hazardous media are used.

Depending on the application, aggressive media with extreme temperatures and high pressure or vacuum may be present at the reed contact float switch in the event of a fault. The reed contact float switch may only be installed and removed after the medium has cooled down to ambient temperature and in a depressurised state.

1.2.4 DANGERS DURING OPERATION OF THE DEVICE

BECKER reed contact float switches have the IP protection class documented in the data sheet when properly mounted and installed.

The IP protection class of the reed contact float switch must be observed when cleaning the entire system.

pay attention. Cleaning the entire system with high-pressure or steam cleaners or comparable devices is only permitted if the IP protection class of the float switch is sufficient. In addition, make sure that the process connection, the cable gland or the connection plug are not directly exposed to the pressure jet.

If the temperature falls below the dew point, condensation may form in the terminal compartment of the device. In such applications, please contact the manufacturer before commissioning.

1.3 ASSEMBLY INSTRUCTIONS

1.3.1 MECHANICAL INSTALLATION

- BECKER reed contact float switches are designed for vertical installation.
- An inclined installation can lead to a malfunction of the float.
- Only use the welding sockets and process connections approved by the manufacturer of the device for the adaptation in your process.
- After installation, check that the float ball is running properly.
- Build-up as well as highly viscous media and solids in the medium can lead to a malfunction of the measuring point by blocking the float ball. In such cases, regular cleaning of the measuring point is necessary.
- When operating the float switch, avoid any direct mechanical contact with agitators, fixtures, high-pressure cleaners, etc..

1.3.2 ELECTRICAL ASSEMBLY

For version with plug - When installing connection cables with plugs, ensure that the plug and coupling are firmly and positively connected. The permissible tightening torque for screw connections (e.g. M12x1 round plug connector) can be found in the data sheet of the respective connection cable.

For version with connection head - Feed the connection cable through the cable gland and install the individual wires on the terminals. Tighten the cable gland until there is a positive connection between the rubber grommet and the connection cable.

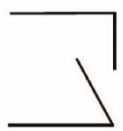
1.4 COMMISSIONING OF THE REED CONTACT FLOAT SWITCH

Switching capacity

Maximum permissible switching capacity reed contact: 175 V AC / DC; 10 VA/10 W; 0.5 A

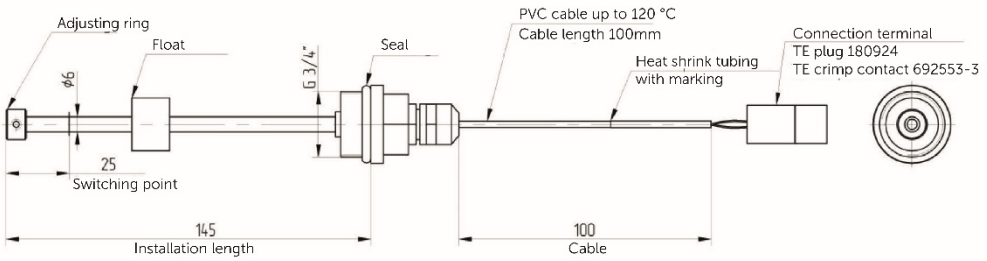
Wiring diagram Switching contact on TE plug

Switching contact normally open



Pin	Function
1	N/O contact
2	N/O contact

Technical drawing



1.5 IMPORTANT NOTES

1.5.1 RETURN AND REPAIR

BECKER reed contact float switches have a modular design as far as possible.

Repairs and overhauls of defective devices are possible in some cases and can also be implemented economically. Please contact Gebr. Becker directly as the supplier of the device for a case-by-case assessment.

1.5.2 DISPOSAL OF OLD EQUIPMENT

Dispose of old devices, components and packaging in an environmentally friendly manner and in accordance with the waste treatment and disposal regulations typical for the country. Pay attention to waste separation and enable the recycling of high-quality materials such as stainless steel, etc.

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