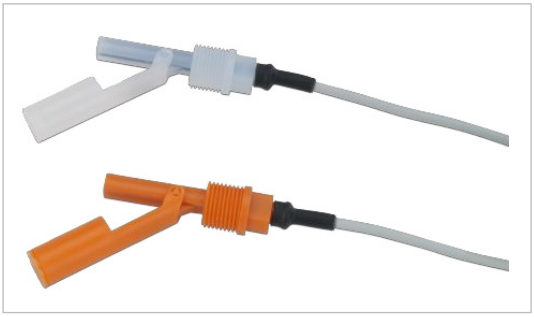
Type 2282 Guided Float Switch



Product description

The Guided Float Switch type 2282 is designed for economical control of liquids in tanks. The switch is remarkable for its maintenance-free compact design. The reed contacts have high switch capacity.

The reed contact in the sensor body is switched with a magnet. The switching function (N/O contact and N/C contact) is determined by the installation position. The function can be changed by simply turning 180°.

Function

The 2282 level switch is specially suited for simple, mechanical monitoring of highest and lowest fill levels. Its compact construction allows it to be installed into very small tanks.

With its housing made of PP or PVDF, the 2282 is especially resistant to a number of chemicals.

Benefits/features

- Optimized chemical compatibility
- Very compact design
- PP and PVDF version available
- For small tanks
- Redundant level sensing

CE UKCA RoHS

Applications

- Cooling water
- Demineralized water
- Water/glycol solutions
- Chemicals
- Especially fit for small tanks
- Redundant level sensing

Technical data

General	
Type	2282-x-6CN

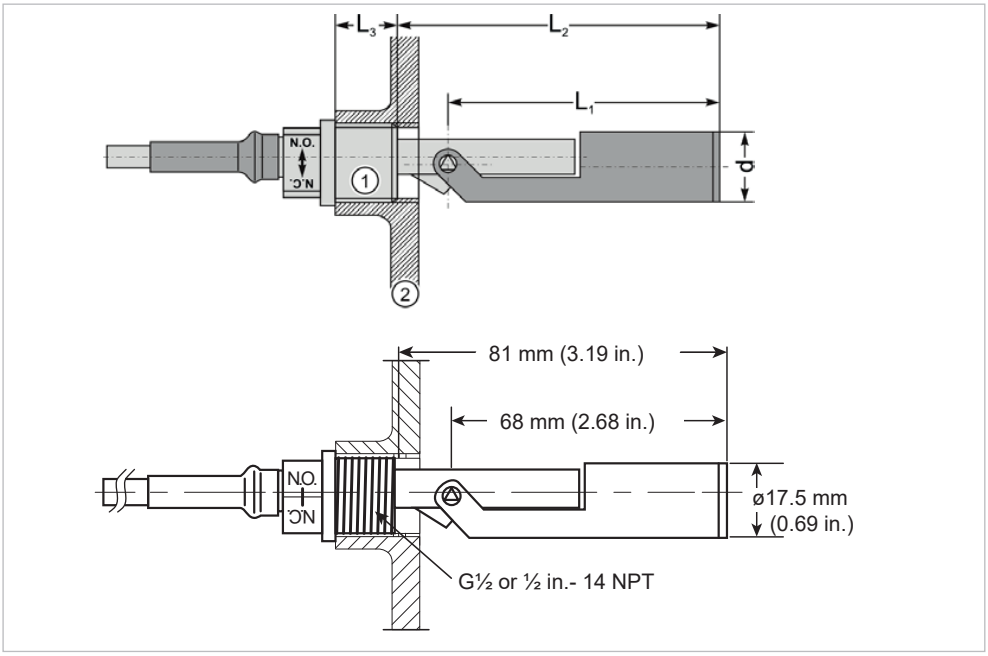
Environment	
Max. temperature	-65 °C bis +100 °C (-85 °F bis +212 °F)
Max. pressure	1 MPa (10 bar) 145 psi
Medium density	>0.6 g/cm³

Housing	
Housing/float material	**PP or PVDF**
Cable material	PVC
Protection rating	IP68
Process connection	½" BSP, NPT

Electrical	
Output	Dry reed contact
Contact resistance	Max. 120 mΩ
Max. nominal voltage	230 V AC/DC
Max. nominal current	2 A / 40 VA
Cable type	AWG 20, 2-wire, PVC, 1m
Switching contact	N/O or N/C depending on the installation

Standards and Approvals	
General Approvals	CE, UKCA, RoHS

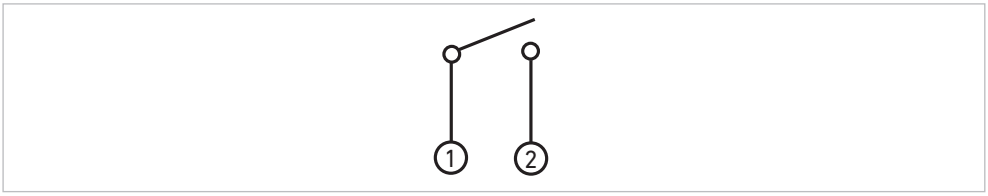
Dimensions



L1 68 mm
L2 81 mm
L3 15 mm
d ∅ 17,5 mm
1 G ½" oder ½" – 14 NPT
2 Container wall

Wiring

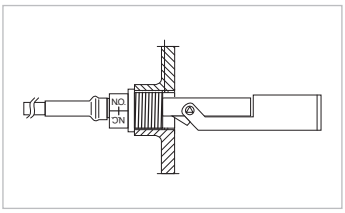
Connection configuration



Max.230 V 2A contact rating:
1 Brown
2 Black

Ordering Information

Manufacturer's part no.	Part no.	Description
Versions with BSP thread		
2282-P-60B	159 300 261	PP housing, cable ½" BSP thread
2282-P-60B	159 300 263	PVDF housing, cable, ½" BSP thread
Versions with NPT thread		
2282-P-6CN	159 300 265	PP housing, cable, ½" NPT thread
2282-V-6CN	159 300 267	PVDF housing, cable, ½" NPT thread



Handling

Installation notes

Ensure before installation that the medium to be measured is free of floating solid matter and ferrous pieces. These can influence the switching mechanics or have a direct effect on the reed contact. It may be possible to protect the switch from floating particles through appropriate precautions.

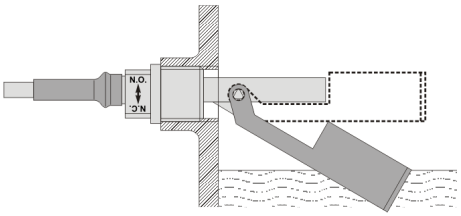
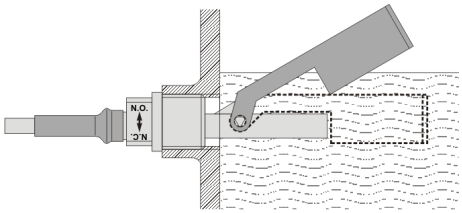
Installation position

- Account for the following points when selecting the position:
- The float switch must be able to be moved along the entire length.
- It does not run into the walls, the bottom or the top of the container.
- Turbulence caused by inlet valves or agitators has been excluded.
- If possible, install in an easily accessible position. This makes later maintenance and replacement steps easier.
- Mounting position is horizontal.
- Observe whether being installated as N/C or N/O contact.

Mechanical installation

- The following should also be observed during installation:
- The cable of the float switch is not connected.
- Ensure that the thread in the container is free of contamination.
- Slide the float switch carefully into the opening and turn it several turns by hand.
- Tighten the float switch with a maximum torque of 4 Nm until the flattened side edges are as vertical as possible.
- Check whether the correct mounting position (NO/NC) has been reached.
- Check whether the connection is leak-tight.
- If it is not leak-tight, remove the sensor completely and reinstall using additional sealing material (e.g. PTFE tape).

Function and mounting position

N/O	N/C
	

Maintenance notes

If the switch is used according to our recommendations, no maintenance will be necessary. If there is a chance that floating particles will be in the medium, then clean the sensor regularly.

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