Float switch

For water feed (yellow) or for dry-running protection (red)

Please read these instructions carefully before installing the float switch!

Float switches for submersible use in storage tanks. Controls the potable water feed or turns off the pump in case of low water level and therefore protects the pump against dry-running.

Instruction for installation and use

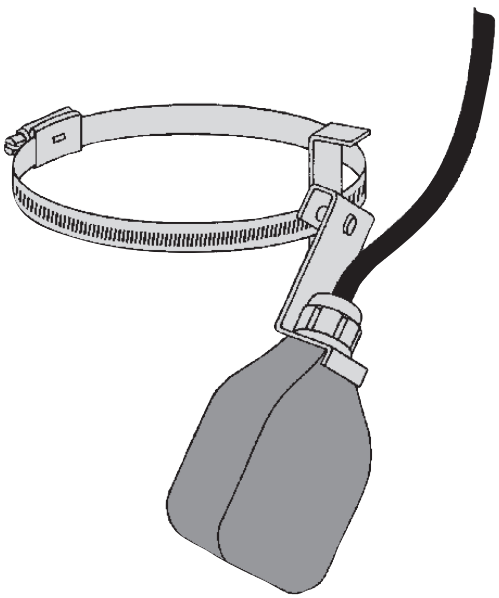
Mechanical installation

Installation without pivot joint

Fix the cable of the float switch centered/centred between the lower and the upper water level with a cable clip or something similar *(illustration 1)*. The switching angle of the float switch is 45°. Therefore the level difference is about 1.4 times of the free cable length *(illustration 2)*.

Example: Free cable length 10 cm (3.94 in.): Level difference 14 cm (5.51 in.).

Allow for the bending radius of the H07 cable of 13 cm (5.12 in.).



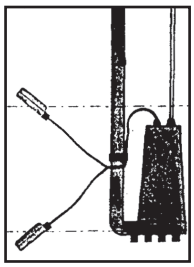


Illustration 1

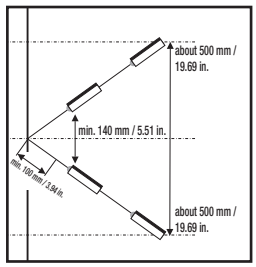


Illustration 2

Installation with pivot joint

The pivot joint permits very small and precise level differences, depending on the installation 4 cm or 9 cm *(illustration 3)*. The respective level difference is indicated on the pivot joint bracket. If for example a level difference of 4 cm (1.57 in.) is desired, the unit should be installed with the 4 uppermost. Fix the float switch centered/centred between the lower and upper water level with the hose clamp/worm-drive clamp (diameter 100-140 mm / 3.94 – 5.51 in.) either on the inlet pipe or on the submersible pump.

Please ensure that the cable doesn't restrict the movement of the float.

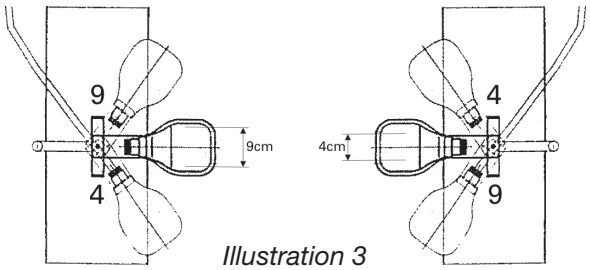


Illustration 3

Electrical installation

The electrical capacity of the switch is 10 (8) A at 220 V, AC.

Wire assignment	**Switch water feed (yellow)**	**Switch dry running protection (red)**
Yellow-green	Earth conductor	Earth conductor
Brown	COM	COM
Blue	On when down	On when up

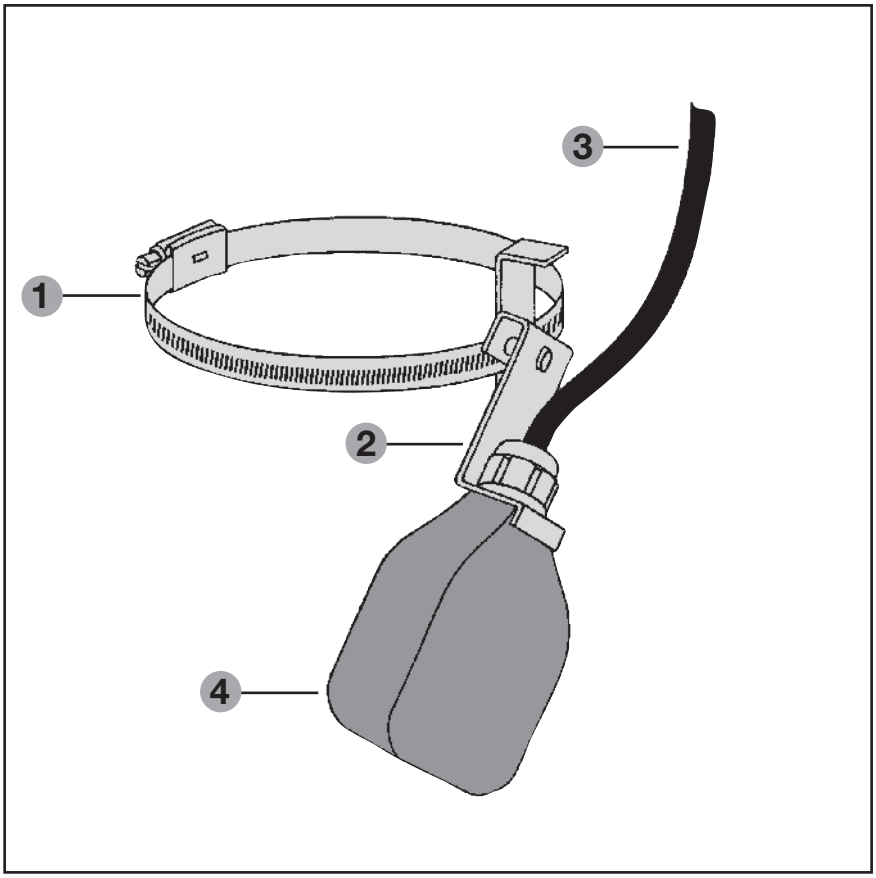
Important: It is possible that water can enter along the cable length and find its way into the switch. It is therefore important not to allow the free end of the cable to enter the water. The connection must be made in a dry area or into a socket protection class IP 65 (or better). It is advisable to use a fault current protection switch.

Application temperatures

The operational temperature range is from -25° up to + 60°

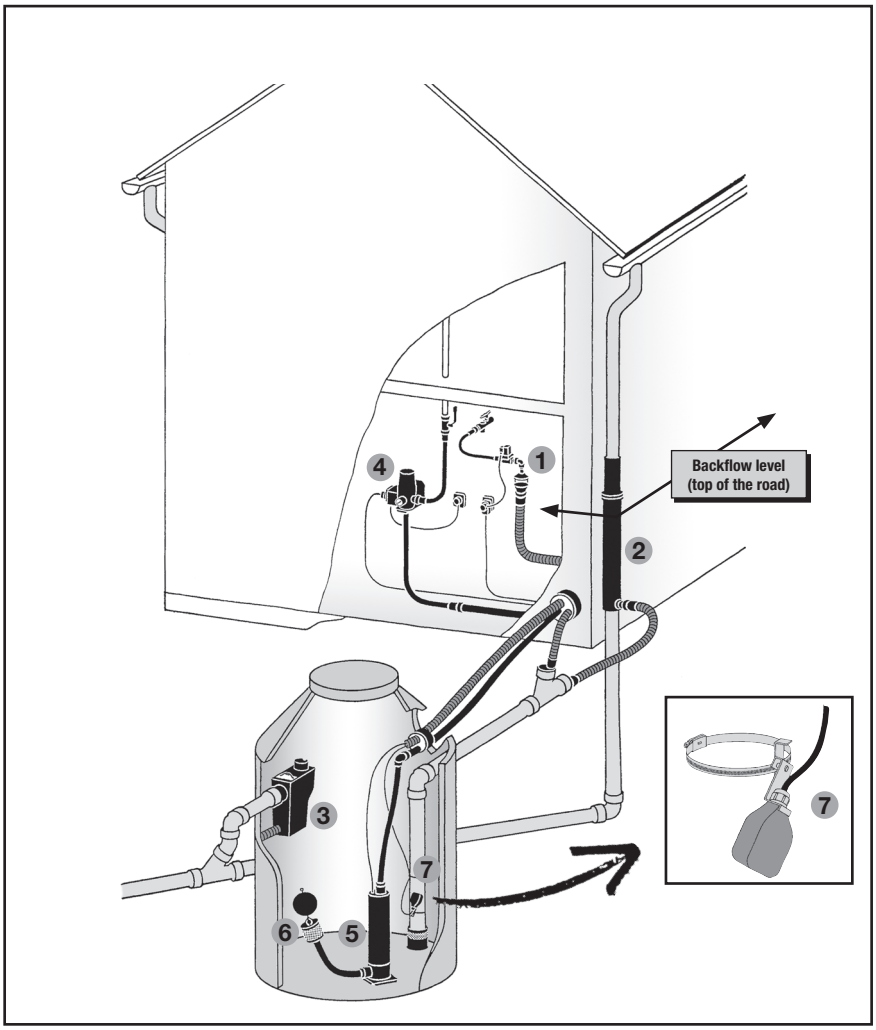
Components:

1 Hose/worm-drive clamp (diameter 100 – 140 mm / 3.94 – 5.51 in.)
2 Switch pivot joint
3 Connecting cable
4 Float switch



Example of a non potable water installation with potable water feed through the open potable water outlet/mains water top-up.

1 Open potable water outlet/mains water top-up
2 Standpipe filter collector
3 Multisiphon
4 Automatic switch
5 Submersible pressure pump
6 Floating suction filter
7 Float switch



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