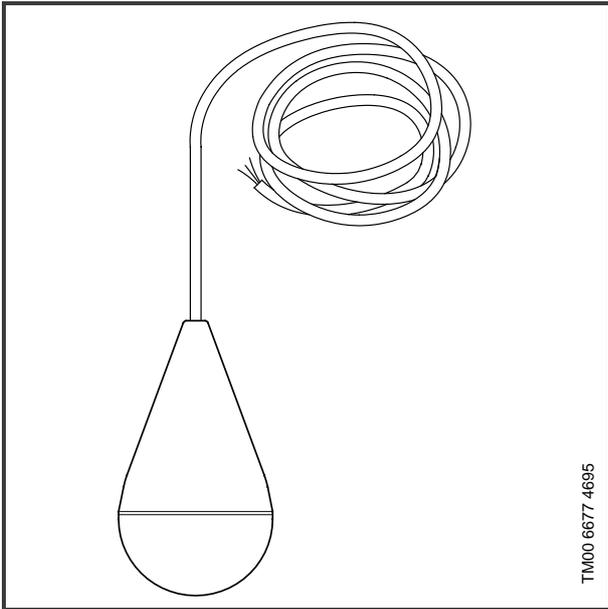


Float switch



TM00 6677 4695

Function

- The float switches can be used:
- in connection with emptying a tank
 - in connection with filling a tank
 - for alarm at high water level
 - for alarm at low water level

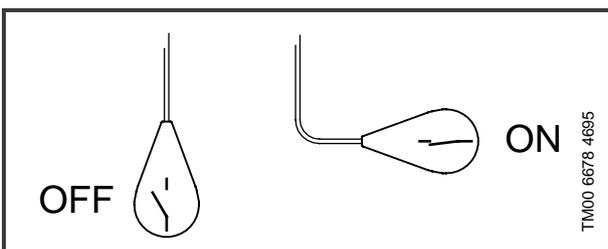
The float switches are to be installed in the pit floating on the pumped liquid.

The float switches have a 3 or 4-core cable. The electrical connections can be made according to the table below.

Float switch connection	Breaking type	Blue	Black	Brown
Emptying a tank	NO		•	•
Filling a tank	NC	•		•
Alarm high level	NO		•	•
Alarm low level	NC	•		•

Breaking types NO (normally open) and NC (normally closed) have the opposite functions. The NO float switches function like this:

- ON** When the float switch points upwards, the contact will close and the pump will start.
- OFF** When the float switch points downwards, the contact will open and the pump will stop.



TM00 6678 4695

The float switch regulates the liquid level in tanks, wells, etc. and is used for automatic level control in combination with groundwater, wastewater and sewage pumps, for raw water and liquid transfer pumps at waterworks, and for high water alarm etc.

The float switches are of the non-mercury type and are available for standard pumps and explosion-proof pumps. The latter has a blue cable which is connected for explosive environments via intrinsically safe relays.

Due to the chemical and thermal properties of the water-proof polypropylene housing as well as the thermoplastic rubber cable, the float switch is resistant to alcohol, uric acid, faecal sewage water, oils, petrol, fruit acid, etc. and even to many chemicals.

Features

- The microswitch, fitted in a dual-chamber system, is completely shock- and rupture-proof.
- The drop shape of the stabilizing weight eccentrically mounted in the housing makes the float switch insensitive to turbulence.
- Due to the smooth and non-porous polypropylene surface impurities cannot adhere and rags, papers and other solid matter slip off without influencing the lift of the float switch.
- The cable entry is sealed mechanically and fitted with a solid strain relief. A separate chamber in the cable entry is filled with a synthetic resin assuring no penetration of humidity. The cable is stripped before the conductors are embedded in the synthetic resin.
- The highly flexible thermoplastic rubber cable has an extremely high mechanical load rating.

Technical data

Breaking capacity:	5 A/AC 250 V.
Liquid temperature:	Max. 85°C.
Operating pressure:	Max. 4 bar
Enclosure class:	IP 68.
Cable:	10 m, 3 x 1 mm ² or 20 m, 3 x 1 mm ² .
Height/Diameter:	180/100 mm.
Weight:	0.95 - 1.05 kg.

Note: Tank to be earthed. If earthing is not possible, e.g. in plastic tanks, extra low voltage to be fitted, for instance contact protection relay KSR/3002.

GRUNDFOS



Installation

One-pump installations can be fitted with up to three float switches:

1. Min.: Stops the pump.
2. Max.: Starts the pump.
3. Alarm: Alarm (optional): High water level or pump fault.

Two-pump installations can be fitted with up to four float switches:

1. Min.: Stops both pumps.
2. Max. 1: Starts the duty pump.
3. Alarm: Alarm (optional): High water level or pump fault.
4. Max. 2: Starts the standby pump.

Standard float switches

Type	Quantity	Product No.
Set for 1 pump without alarm	2 *	62500013
Set for 1 pump with alarm	3 *	62500014
Set for 2 pumps without alarm	3 *	62500014
Set for 2 pumps with alarm	4 *	62500015
Float switch with 10 m cable	1	96003332
Float switch with 20 m cable	1	96003695
Bracket and cable clamps	1	96003338

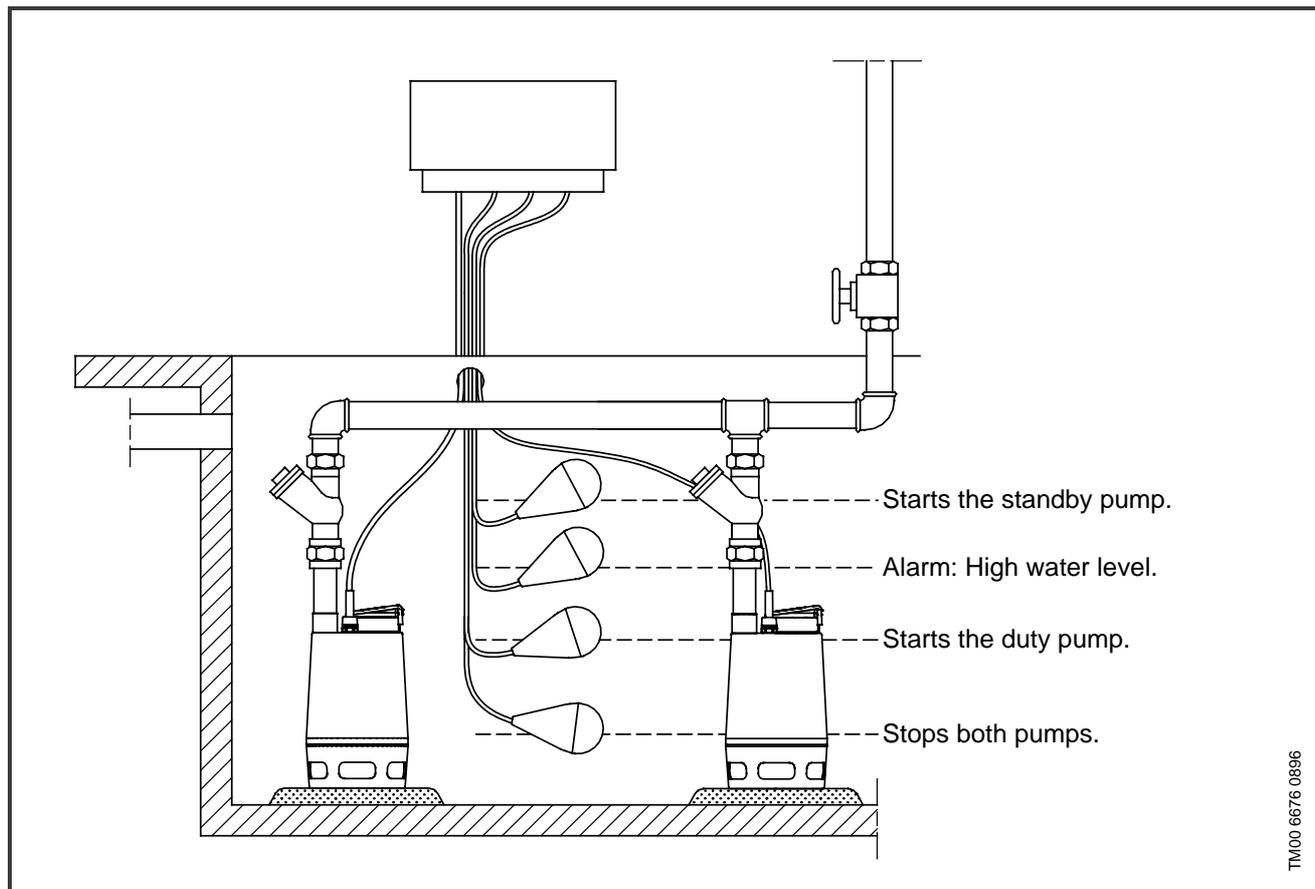
* Float switches with 10 m cable. Bracket and cable clamps included.

Float switches for explosion protection.

Type	Quantity	Product No.
Set for 1 pump without alarm	2 *	62500016
Set for 1 pump with alarm	3 *	62500017
Set for 2 pumps without alarm	3 *	62500017
Set for 2 pumps with alarm	4 *	62500018
Float switch with 10 m cable	1	96003421
Float switch with 20 m cable	1	96003536
Bracket and cable clamps	1	96003338

* Float switches with 10 m cable. Bracket and cable clamps included.

Two-pump installation



TM00 6676 0896

V7 11 11 61 02 99	GB
Repl. V7 11 11 61 03 96	

Subject to alterations.

