

The source for world wide pump technology

International Customer Service



Worldwide Presence

HOMA pumps are installed in more than 60 countries around the worldin countless projects of various kinds. They comply to all international safety and quality standards and are certified by many institutions and organisations responsible for national waste water treatment standards. To maintain and further develop this high quality level is our main target.

Network of Sales and Service Partners



our customers with excellent sales and service assistance in planning, specification and selection, including a computer software program available on CD-ROM or from the WorldWideWeb.

HOMA product range

- Submersible waste water pumps with channel- and vortex-hydraulic
- Submersible propeller pumps Submersible grinder pumps
- Submersible, surface and venturi aerators
- Packaged pump stations
- Waste water lifting stations
- Submersible drainage pumps
- Contractor pumps
- Electric and electronic pump controls

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Float Switches Level Controllers

> Type AS, MB / MB-Ex / BO / BS, M2

The source for increased safety and reliability

HOMA float switches - well thought out in detail

Mercury-free liquid level controllers for the automatic operation and control of

- pumps or pump stations
- sewage and waste water disposal units
- electric gate valves
- overflow or dry run protection
- limit detector or alarm devices



HOMA float switches consist of a robust, watertight composite float body with a built-in micro switch.

Depending on the float switch position in the fluid, a switching ball or a toggle weight activates the micro switch and opens or closes the circuit.

Different types of float switches are available with:

- opening contact (in uplifted position the circuit is opened) closing contact (in uplifted position the
- circuit is closed) or • dual contact (depending on the cable connection, this switch can be used as an opening- or closing

contact)

In case of hazardous liquids, where an overflow has to be reliably prevented, an opening contact switch should be installed, since even in case of a broken float switch cable, the operation of the pump or the alarm is securely provided.





Type AS

Float switch with large switching angle, especially as combined On-Off switch for smaller pumps or alarm triggering. High capacity up to 8 A for directly switching the motor current. Depending on the float body's position, the swiching ball activates the built-in micro switch. The eight-shaped rolling surface for the ball guarantees a reliable function, even if the liquid level rises very slowly or the cable is twisted. In order to vary the switching differential it is possible to shorten or lengthen the cable between the fastening position (or adjusting weight) and the float body (minimum cable length 10 cm). The switching height itself is set by raising

or lowering the fixing point. The float switch type AS is available as an opening- or closing-contact .

(supplied with dual contact) • Acid resistant model (type BS)

Available models:

(type MB-Ex)

contact)

contact)



Technical data

	Туре	AS	
	Switching voltage	250V AC	
	Switching capacity	1 mA - 8 A	
	Switching angle	90°	
	Operating pressure max.	1 bar	
	Operating temperature max.	90°C	
	Dimensions (in mm)	150 x 85 x 40	
	Material of float body	PP-Copolymerisates	
	Material of cable	svnt. Caoutchouc	

Function of liquid level control

Float switch without toggle weight, combined switch function On-Off





At reaching the "switch-on level", the float switch activates the pump



Float switch with toggle weight, seperated switch funktion On-Off



(above) activates the pump.





(3)

pump off.

(2)The liquid level is decreasing

4 until the "switch-off" con-Inflowing liquid rises the troller (below) shuts the level

(5) starts again

and the pumping procedure

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Type MB, MB-Ex, BO, BS

Float switch with intergrated toggle weight, hangs freely from the cable. The required switching point is set by the cable length. The position of the float body varies by rising or decreasing of the liquid level. The container toggles arround the integrated weight and thus is prevented from surfacing or being affected by turbulences.

• Standard model (type MB) (available with opening- or closing

• for explosion proof pumps

(available with opening- or closing

• Oil resistant model (type BO) (supplied with dual contact)









MB, MB-Ex, BO, BS	M2
4V - 30V AC / DC	4 - 250V AC
1 mA - 3 A	1 mA - 2 A
20°	10°
0,5 bar	1 bar
60°C	80°C
190 x 80 dia.	90 x 60 dia.
Polypropylene	Polypropylene
PES / PVC	TKP / PVC

Type M2

Due to its smaller volume the float switch M2 is suitable for use in liquids without large amounts of solid matter. It is especially suitable for use in small tanks with limited space. This float switch must be fixed according to the required switching level.

The float switch M2 is supplied with dual contact.