

Stainless steel magnetic float level controller MNR 7



- Construction: stainless steel 316
- Up to 4 bi-stable change over contacts
- High switch power capacity
- Independent from density.
- Foam or vapors do not interfere
- Option for a continuous measurement, see specific documentation 586 about RTM/MNR7

APPLICATIONS

- Automation ON/OFF of pumps and solenoid valves,
- Low and high alarm indication,
- Automatic tank filling up or draining, etc.

MNR7 level controllers are suitable to non viscous, non sticky liquids without magnetic and solids particles. The liquids may not crystallize.

PRINCIPLE

Switches are mounted in the guide tube; they are actuated by the magnet built in the float, to allow 1 to 4 level detections within the application.

DESCRIPTION

The housing is IP65 and the cable pass through a cable gland PG11. Wiring is done on a screw terminal.

On the lower end of guide tube, a blocking ring allows to take off the float before to fit the tube through a small diameter hole.

DEFINITION

- Following is a cross table to built up your instrument. Please, verify the material compatibility with your chemical fluid and the limits of pressure and temperature with your process maxima.

- Our technicians may help you in MNR7 definition. Always mention the fluid in contact, concentration, process temperature and pressure.

- Note the exact distance of contact(s) measured as of the sealing surface. Consider the minimum distance between two contacts (100 mm) and dead zone we indicate on the drawings.

- **Caution:** the switching power of the Reed contact is 60 VA; you may protect it with a power relay (such as ES2001, documentation N° 250-01)

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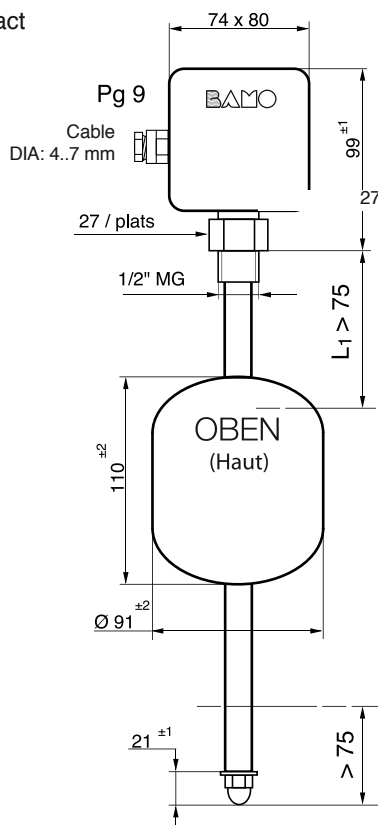
TECHNICAL FEATURES

Housing:	Painted aluminum – IP 65
Guiding Tube:	Stainless steel DIN 1.4404 (AISI 316 L)
Float material:	Stainless steel DIN 1.4571(AISI 316Ti)
Float diameter:	91 mm
Float height:	110 mm
Process connection:	BSP 1"
Option*: flange PN 10 (Code number):	DN 100 (550 420)
Maximum length:	3 000 mm
Minimum length:	250 mm
Minimum specific weight:	750 g/L
Pressure higher limit:	25 bar
Temperature limits:	-20...+110°C
Contact, code number:	550 050
Switching power capacity:	60 VA
Minimum distance between 2 contacts:	100 mm
Accuracy:	±2 mm
Hysteresis:	8 mm
Upper dead zone:	75 mm
Lower dead zone:	75 mm

* The flange DN 100 (option), allows an installation without float disassembling

CODE NUMBERS

- 550 401...④ ← : acc. to contacts number
 550 050 ← : Spare part, Reed contact



CONTACTS - WIRING

The Reed contacts are bi-stable change over contacts. Their switching power is 60 VA / 220 V / 0.5 A
 Wiring is on screw terminals with index of level switches.

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