

Magnetic Level Controllers MNR 7



- Versions in: PVC, PP or PVDF
- 1 to 4 level changeover contacts
- Fitting 2" for standard models
- No effects of foam, neither of vapours
- Measuring height: up to 2500 mm

APPLICATIONS

- Level controllers for liquids, even aggressive ones, not viscous, not clogging and free of suspended solid particles.

DESCRIPTION

The Reed contacts (up to 4) inside the stem, are actuated directly by the magnet float. Wet parts (stem and float) to choose between: or PVC & PP, or PP, or PVDF

Quick commissioning:

- Distance of each contact from sealing surface is fixed (requested on P.O.): No adjustment requested on site to guarantee the exact positioning of contacts.
- The PP float passes through the BSP 2" fitting without dismantling the MNR.
- At the stem bottom a nut limits the float movement: By unscrewing it, the float may be removed.

Note: It is recommended to provide the optional flange ND100 to allow the PVDF float to pass through the fitting.

Recommendations:

The use of a relay ES2001 (data-sheet 250-02) will protect the Reed contact and increase its switching power and lifetime.

TECHNICAL FEATURES

Height of stem	Min. 250 mm / Max. 2,500 mm
Liquid density	Min = 0.75
Temperature	PVC: 0 ... +60 °C PP: 0 ... +80 °C PVDF: 0 ... +110 °C
Pressure limit	Max. 1 bar at 20 °C

Materials:

Stem and fitting	PVC, PPH or PVDF
Float	PPH or PVDF
Head housing	PBT, glass fiber reinforced, IP65

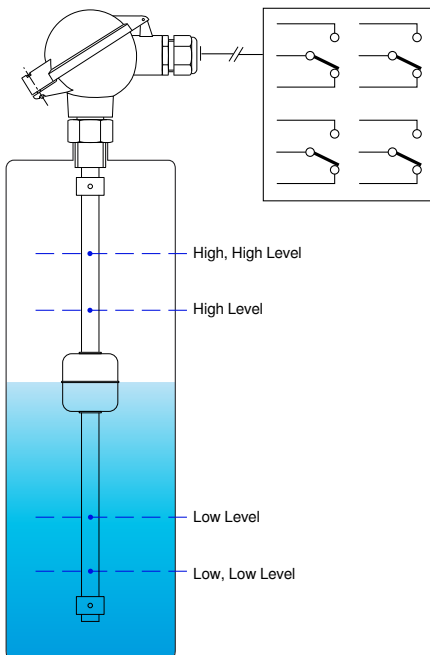
Contacts:

Number	1 to 4 bistable change-over contacts
Switching power	60 VA / 220 V / 0.5 A
Connections	Screw terminals Cable gland M20 x1.5 (for cable Ø 5 ... 9)
Shortest gap	100 mm between 2 contacts
Accuracy	± 2 mm
Hysteresis	8 mm

Fittings:

Standard	BSP 2"
Option	Flange ND 100 or BSP 1"

EC Conformity: The instrument meets the legal requirements of the current European Directives.



Principe de fonctionnement

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Magnetic Level Controllers
MNR 7

26-02-2020

D-550.01-EN-AA

NIV

550-01 /1

CODE NUMBERS AND REFERENCES

Standard length: 500 mm (Extra cost over 500 mm)

Code	Reference	Nr of contacts	Stem	Float
550 121	MNR7-PVC/1-2"	1	PVC	PPH
550 122	MNR7-PVC/2-2"	2	PVC	PPH
550 123	MNR7-PVC/3-2"	3	PVC	PPH
550 124	MNR7-PVC/4-2"	4	PVC	PPH
550 221	MNR7-PPH/1-2"	1		PPH
550 222	MNR7-PPH/2-2"	2		PPH
550 223	MNR7-PPH/3-2"	3		PPH
550 224	MNR7-PPH/4-2"	4		PPH
550 321	MNR7-PVDF/1-2"	1		PVDF
550 322	MNR7-PVDF/2-2"	2		PVDF
550 323	MNR7-PVDF/3-2"	3		PVDF
550 324	MNR7-PVDF/4-2"	4		PVDF

Extra-cost over 500 mm, per each 100 mm:

550 110	PVC stem, per 100 mm
550 210	PPH stem, per 100 mm
550 310	PVDF stem per 100 mm

Spare parts for MNR 7

550 050	Bistable change-over contact, 60 VA (wires: 500 mm long)
550 211	PPH Float for MNR 7 PVC & PPh (Ø 52 mm)
550 311	PVDF Float for MNR 7 PVDF (Ø 78 mm)

Option: ISO Flange size ND 100 for MNR7

550 120	PVC Flange ND100, threaded BSP 1"
550 220	PPH Flange ND100, threaded BSP 1"
550 320	PVDF Flange ND100, threaded BSP 1"

INFORMATION REQUESTED

Operating conditions:

Liquid

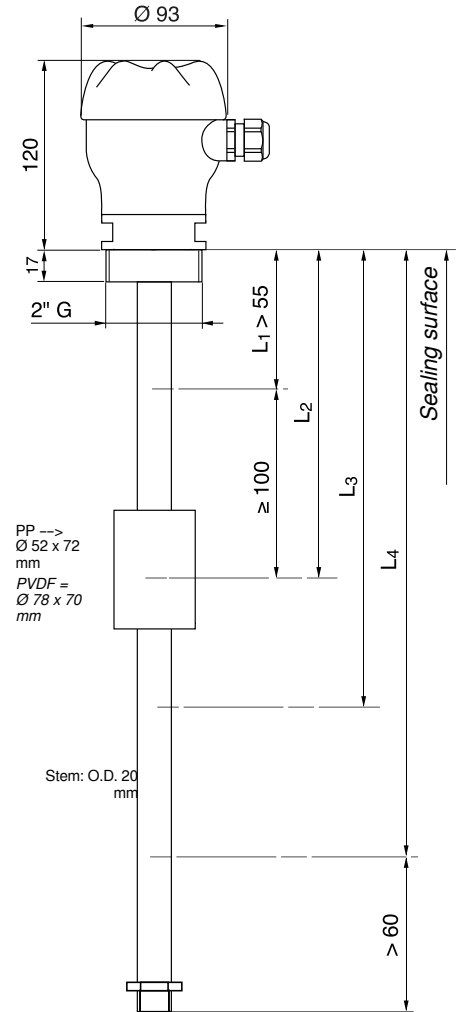
Density

Pressure max. Max..... bar

Temperature max. Max °C

Contact distance from sealing surface:

L1 = mm	L2 = mm	L3 = mm	L4 = mm
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