

Magnetic level controllers

MNR 6

- Versions: PVC, PPH, PVDF or AISI 316
- 1 or 2 changeover contacts
- Reduced dimensions
- No effects of foam and vapours
- Measuring height: Up to 1500 mm



APPLICATIONS

Pumps and solenoid valves automation, low and high alarm signals, overflow detection, etc.

The MNR 6 series is recommended for non-viscous, non-sticky liquids and without magnetic particles or suspended solids.

DESCRIPTION

Reed contacts are adjusted at factory according requested trigger points on purchase order; They are actuated by the magnetic float. Wet parts are in PVC, PPH, PVDF or stainless steel (see further on detailed versions).

Quick commissioning:

Trigger point distances are determined prior to manufacture in relation to the sealing surface, in order to ensure the correct position of the contacts. The float can be removed from the bottom of the MNR6 controller (end stop ring removed). It is useful to order the option 2" coupler or a flange NB 50 to allow the float introduction from the tank top when possible.

Recommendations:

The use of a relay ES2001 (data-sheet 250-02) is recommended to protect the Reed contact by a low intensity current in the loop and to procure a great longevity to the device.

TECHNICAL FEATURES

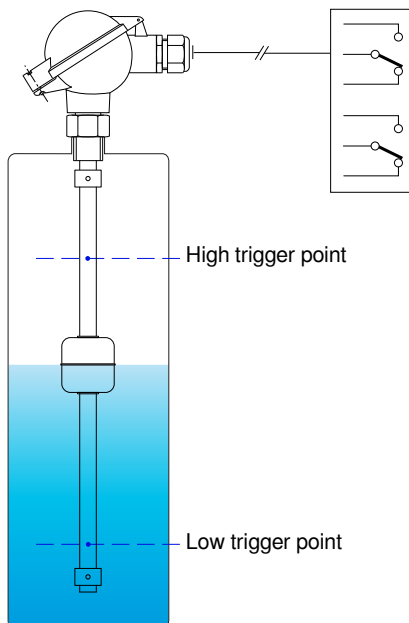
Trigger point distances	From sealing surface: Min. 250 mm, Max. 1500 mm <i>See the table "CODES AND REFERENCES"</i>
Temperature limits	PVC-U: 5 ... +50 °C; PPH: -5 ... +80 °C PVDF: -10 ... +110 °C; AISI 316 L: -20 ... +110 °C
Pressure limits	Max. 3 bar at 20 °C for plastic versions Max. 20 bar at 20 °C for stainless steel version

Materials

Stem and fitting	PVC, PP, PVDF or AISI 316 L
Float	PP, PVDF or AISI 316 L
Head housing	PBT for plastic versions; IP 65 (or DIN Plug IP 65) Aluminum alloy for AISI 316L version; IP 54 (or DIN plug IP 65)

Output signals:

Number of contacts	1 or 2 changeover contacts <i>One stop ring is added if a bistable contact is requested</i>
Switching power	60 VA / 220 V / 1 A
Terminals	Terminal board head housing or DIN Plug or cable output (3 m)
Gap between two contacts	Min. 100 mm
Accuracy	± 2 mm
Hysteresis	8 mm



In operation

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05-05-2021

D-551.01-EN-AE

NIV

551-01 /1

CODE NUMBERS AND REFERENCES

Model

Stem and stop rings material

- P** PVC; Max. height: 1000 mm
- H** PPH; Max. height: 1000 mm
- V** PVDF; Max. height: 1000 mm
- I** AISI 316 L; Max. height: 1500 mm

Floats

- H** PPH; Height 36 mm; Ø 42; Mass: 20 g; S.G. Min. 0.65
- V** PVDF; Height: 49 mm; Ø 41; Mass: 40 g; S.G. Min. 0.90
- I** AISI; Height: 43 mm; Ø 43; Mass: 24 g; S.G. Min. 0.70

Number of contacts

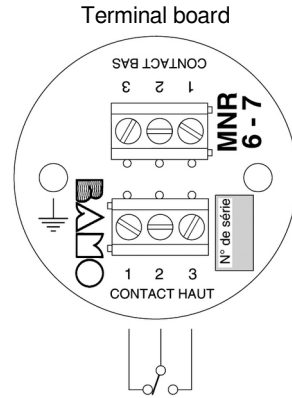
- 1** 1 contact
- 2** 2 contacts

Fitting

- 00** None
- 1** BSP 1/2"
- 2** BSP 2"
- 51** Flange NB 50

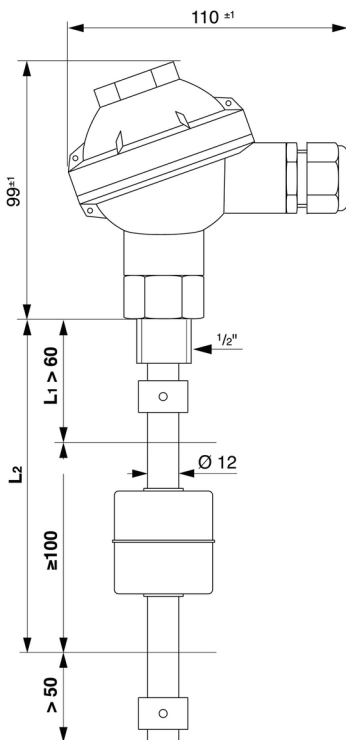
Connection

- FIL** Cable output (3 m long)
- DIN** DIN connector (only 1 contact)
- PP** PP head
- B** Aluminum alloy head

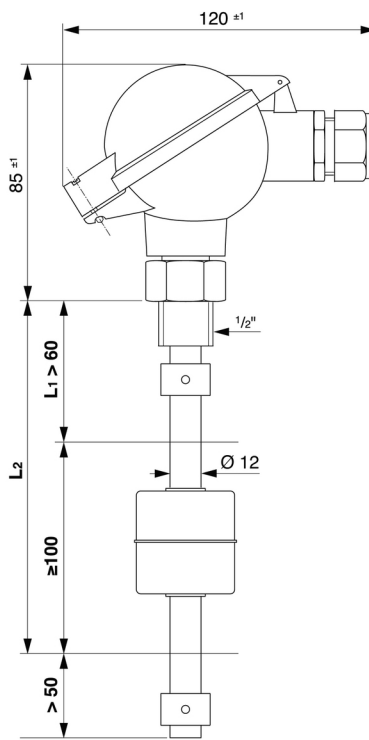


MNR6 P H 2 1 PP

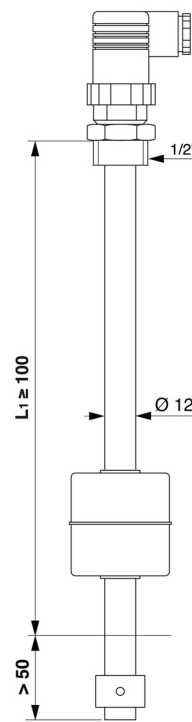
DIMENSIONS



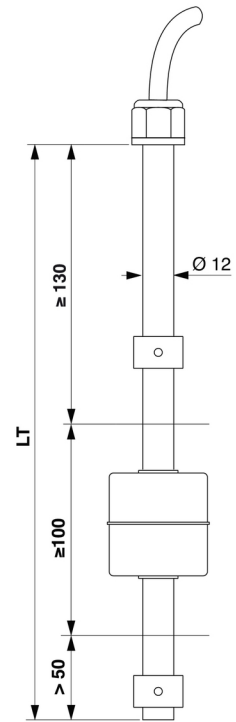
PP head



Aluminum head



DIN connector



Cable output

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