MNR 6 – Start-up instructions

TECHNICAL FEATURES

Pressure limits (at20°C)	PVC, PA, PPh, PVDF: 3 bar Stainless steel: 20 bar
Stem length:	PVC, PA, PPh, PVDF: 1000 mm
	Stainless steel: 1500 mm
Temperature limits:	PVC, PA: +5+50 °C
	PPh: -5+105 °C
	PVDF: -10+110 °C
	Stainless steel: -20+110 °C
Contact (1 or 2):	Change-over
	(bi-stable with blocking nuts)
Switching power:	60 VA / 220 V / 1 A
Inter-course:	Shortest distance between
	2 contacts: 100 mm
Accuracy:	±2 mm
Hysteresis:	8 mm
Dead zones:	Top: 60 mm; Bottom: 50 mm

FLOAT DIMENSIONS:

Material	Height [mm]	Ø [mm]	Weight [g]	Lowest S.G.
PA	29	42	22	0.75
PPh	36	42	20	0.65
PVDF	49	41	40	0.90
St. Steel	43	43	24	0.70

RECOMMENDATIONS

Consider the switching power of the Reed contacts and protect them when necessary. The relay ES2001 (our data sheet 250) is designed to protect the Reed contacts with a low voltage for the detection loop.

The use and mounting of these devices must be out of magnetic induction field. Fit the instruments with non-magnetic connections (stainless steel or composite materials). Any ferrous parts or made of ferric-alloys parts must be distant of 10 cm as a minimum from the Reed contacts.

Liquids in contact with the instrument should be chemically compatible with the construction materials of all wetted parts. Fluid must be of low viscosity, clean without particles, not clogging, not sticky.

DESCRIPTION

MNR6 level controllers are suitable for automation ON/OFF of pumps and solenoid valves, low and high alarm signals, automatic tank filling up or draining, etc. Reed contacts (max. 2 contacts) are mounted in the guiding tube; they are actuated by the magnet built in the float, to allow 1 to 2 level detections within the application.



SAFETY PRECAUTIONS:

Magnetic float switches which are installed into containers whose liquid content or metal walls may be touched by persons may only be operated with safety low-voltage in accordance with the standards.

MOUNTING

MNR 6 may only be installed vertically, above the tank, its axis at 90° of angle with the liquid surface. The float can be removed for installation as well as the retaining nut, blocking ring if any: mark off their positions before dismantling. Once mounted above the tank, check the correct function of the contacts with a multimeter, and then proceed to wiring.

WIRING

Head housing version

On the PCB, each screw connector corresponds to one of the contact. Marks: BAS for lowest contact and HAUT for highest contact.

Contact status will be NC between 1 and 2 without float and will be NO between 2 and 3.

Connector DIN 43650 version

NC contact between 1 and 2 without float and NO between 2 and 3.



MAINTENANCE

When after a while the float moves with difficulty, proceed to depose it in order to clean the float and the stem.

BAMOMESURES