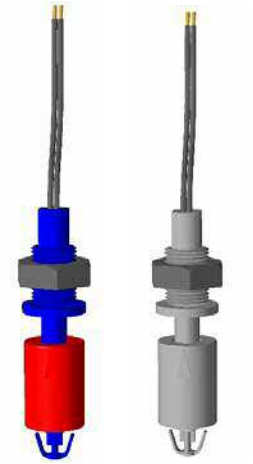
DISIBEINT

IMN 50 NY V / IMN 50 PP V

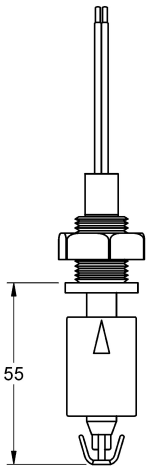
Microlectra bv.

www.microlectra.nl

LEVEL MAGNETIC SWITCH



info@microlectra.nl



General

Operating principle	The IMN level magnetic sensors are based on the action of a reed switch located inside the tube, which is activated by a magnet housed inside the float and moves due to the thrust of the liquid.
Application	· For the detection of a single point liquid level. · Used in maneuvers for filling, emptying, overflow alarm, etc.

Housing

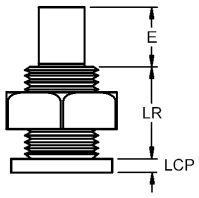
Electrical connection	By two-wires conductors.
Length	0,5 m
Cable material (Temperature)	PVC (70 ºC)

Body

Guide tube	Ø9 mm. Nylon 6.6 or PP
Float run	12 mm
Temperature	-30..+80 ºC (IMN 50 NY V) / -30..+60 ºC (IMN 50 PP V)
Assembly position	Vertical, ±15º
Protection	IP65. Encapsulated with epoxic resin. IP68 (Submerged section)

Process connection

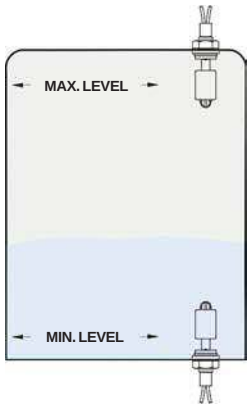
	IMN 50 NY V	IMN 50 PP V
Material	Nylon 6.6 (blue)	PP (grey)
Thread	M16x2	
E (mm)	13	
LR (mm)	20	
LCP (mm)	3	



Floats

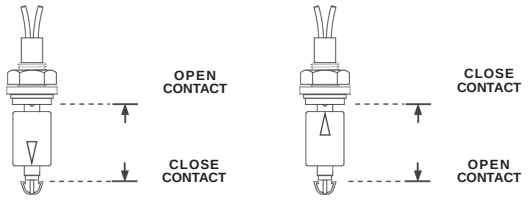
	IMN 50 NY V	IMN 50 PP V
Material	Nylon 6.6 (blue or red)	PP (grey)
Dimension (mm)	Ø 21x30	
Pressure (kg/cm²)	3	
Density (g/cm³)	e > 0,85	e > 0,8

Installation exemples



Contacts

Class	15 WVA / 250 VAC/DC-0,3A
Type	Reverse the position of the float, the contact can be NO or NC
Layout	



Order code	IMN 50 NY V / IMN 50 PP V

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ASSEMBLY INSTRUCTIONS FOR IMN 50 NY/PP HORIZONTAL or VERTICAL

EXTERNAL Assembly

· Drilling a hole of 23 mm in diameter in the vessel wall.
· Remove burrs from the hole and ensure that both sides are smooth to prevent damage to the washer or sealing gasket.
· Remove carefully attaching the sensor wires. Introduce the compression sleeve, the friction washer and nut assembly in the housing (Fig. 1) and turn the nut until the sleeve starts to deform.
· With the orientation indicator positioned correctly, the sensor assembly slide into the hole of the tank until the compression sleeve reaches the vessel wall.
· Maintenance position sensor assembly for the rear end carefully tighten the nut to a torque max. of 2.67 Nm.
· After checking the hose and position the sensor, you can proceed to connect the system control circuit.

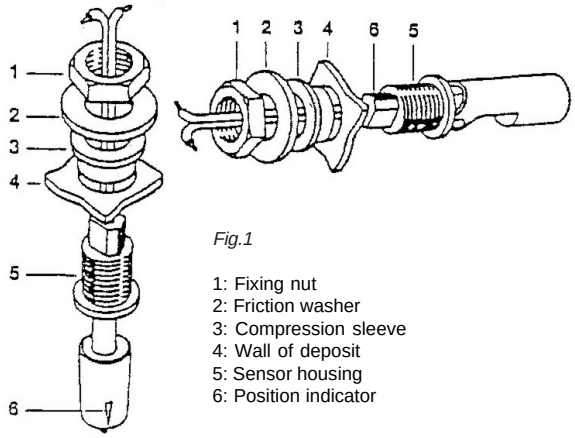

Fig.1

1: Fixing nut
2: Friction washer
3: Compression sleeve
4: Wall of deposit
5: Sensor housing
6: Position indicator

Maximum wall thickness: 10 mm.

Investment switching action:

· Horizontal models: 180º Rotate the sensor position by observing the position indicator.

· Vertical models: Compress the arms of the cap and remove the float, reverse its position and reassemble.

INTERNAL Assembly

· Drill a hole of 16,5 mm in diameter in the vessel wall.
· Remove burrs from the hole and ensure that both sides are smooth to prevent damage to the washer or sealing gasket.
· Carefully remove the wires attaching the sensor and replace the washer or sealing gasket in the sensor housing. Introduce from inside the wires through the hole in the tank taking care not to damage the washer or gasket, position it properly against the inner wall of the tank and the rim of the housing assembly sensor (Fig. 2).
· Place on the outside of the tank washer and nut over the wires and position the housing assembly of the sensor in the correct position for tightening.
· After ensuring that the position signal and that the washer or gasket is positioned correctly, tighten the nut to a torque of 4 Nm.
· After checking the board and the position of the sensor, you can proceed to connect the system control circuit.

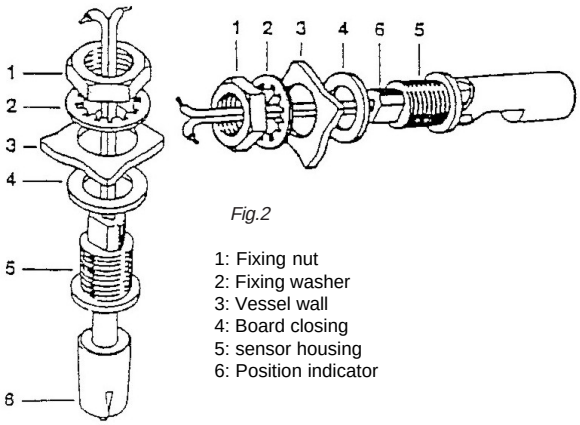

Fig.2

1: Fixing nut
2: Fixing washer
3: Vessel wall
4: Board closing
5: sensor housing
6: Position indicator

Maximum wall thickness: 4 mm.

Investment switching action:

· Horizontal models: 180 º Rotate the sensor position by observing the position indicator.

· Vertical models: Compress the arms of the cap and remove the float, reverse its position and reassemble.

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