_				1/3						
DISIBEINT										
	IMN BC PVC / INOX / PA									
Ν	EVEL MAGNETIC SWITCHES									
General	Operating principle Application	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. For the detection of one or more level points: hydraulic grops, lubrication oil reservoirs, tank farms, etc.								
0	Manufacturing	Are customized to suit the installation	conditions.							
Housing	Electrical connection Protection Temperature (T <sub>a</sub> ) Cable gland Ø Hose									
Body	Guide tube Length Temperature Mounting position	SS AISI316 (1.4401). Ø12 mm 903500 mm -40+90 °C Vertical, ±15°								
<b>Process connection</b>	Flange Material n x t (mm) T (mm) Ø d (mm) D (mm) Thickness (LCP) (mm)	BR68 PVC 4x6 10 52 68 8 LCP								
Floats	Model Material Dimension (mm) Pressure (kg/cm²) Density (g/cm³) FS / FH (mm) = FS FH	FCPA07M14         FCPP04M14           PA         PP           Ø 29x50         3           e > 0,6         20 / 30								
Contacts	Nr of contacts Class Distance between them	13 NO: 120 WVA / 250 VAC-3A NC-NO/NC: 60 WVA / 230 VAC-1A > 40 mm								
Protection	Standard Protect Encapsulated	Anti-condensation effect. In installations where there are large temperature differentials.								

Determine the total length according to the characteristics of the shell and the liquid level to be controlled.

According to the maneuver you wish to perform, determine the amount, location and type of contacts. Use the table below to define these characteristics.

Contacts: To set the type of contact (NO, NC, NONC) should be without the presence of the float. For example, if you want the lower end of the sensor contact opens when the tank runs out of fluid, seek an NC contact for the position.

Direction of action ( $\uparrow \downarrow$ ): Set the direction of action of the float (the filling or emptying) allows more precise adjustment of the position of the contacts to the point of desired performance.

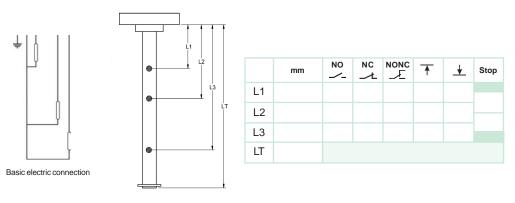
Electrical connection: If not otherwise specified explicitly, provide a common connection to all the contacts and an active connection for each of them, according to the diagram below.

Additional floats: The sensor comes equipped by default with a single float, the lower stop and if required, the upper stop. Can request as many additional floats as many contacts as necessary.

Conditions of work: Check that the conditions of pressure, temperature and density of your system match those offered by the model chosen. If you have questions regarding the behavior of materials in contact with the liquid you want to control, see chemical resistance chart on our website.

Apart from the possibilities listed here, there are others such as other floats, various electrical connections, etc..

For other connectivity options and combination of floats and contacts, see our document "Connections for Switches Magnetic Level" you will find on the "Utilities / Tables" our website.



Use this document to define the data of sensor and attach it at the time of ordering.Specify in mm. total length of the sensor.

Specify in mm. the position of each of the contacts used in your application.Place an "X" the type and direction of action of each contact.

In the composition table references check boxes next to the selected features.

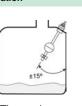
REFERENCE	VERSION	PROCESS	FLOAT	TOTAL LENGTH	Nº CONTACTS	Nº FLOATS
IMN BC PVC INOX PA	<ul> <li>□ V1 Standard</li> <li>□ V2 Protect</li> <li>□ V3 Encapsulated</li> </ul>	□ <b>P41</b> BR68	□ <b>F55</b> FCPA07M14 □ <b>F51</b> FCPP04M14	L 903500 mm	<ul> <li>C1 1 contact</li> <li>C2 2 contacts</li> <li>C3 3 contacts</li> </ul>	□ N1 1 float □ N2 2 floats

To compose a reference, select an option from each of the columns. Example: IMN BC PVC INOX PA V1 P41 F55 L500 C1 N1

Advice installation



If the tank is metal walls, the probe will separate from them at least 100 mm.



The maximum slope should be ±15°



Place the sensor as far as possible from areas of turbulence.



turbulence.

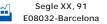


Separating wall or discouragement.



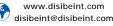
PSIA, DSIA relay: Differential control of max. and min. by timing.

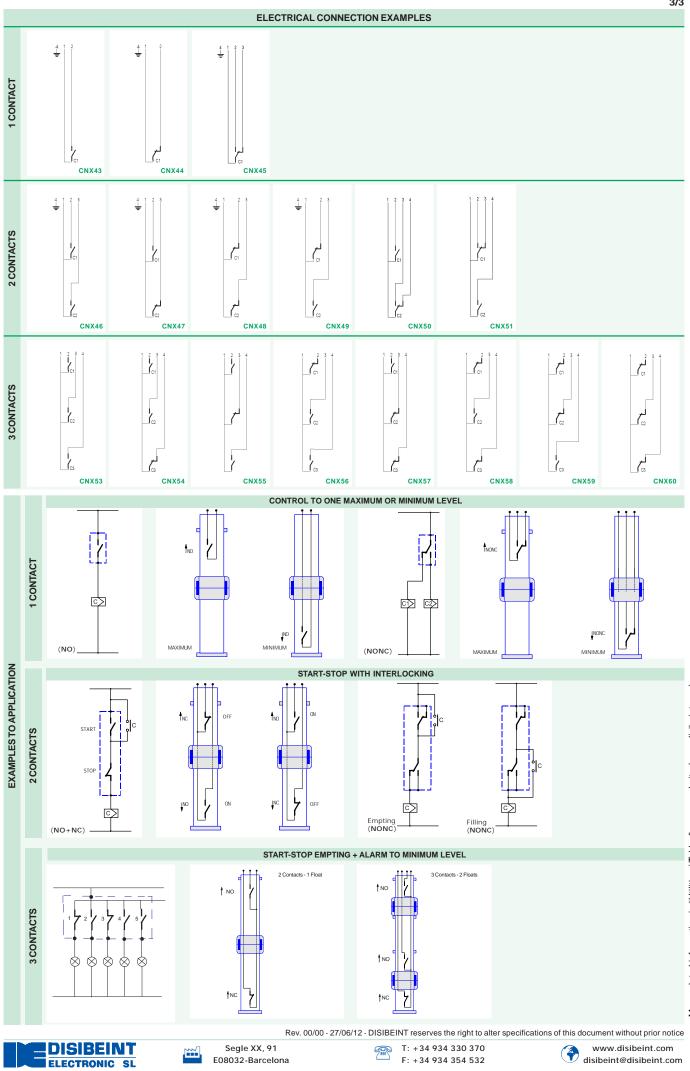




T: +34 934 330 370 M F: +34 934 354 532

Installation in areas with turbulence





More related information in "Utilities / Tables" on our website (www.disibeint.com)

3/3