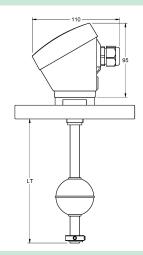


## **IMN DB INOX**





## MAGNETIC LEVEL SWITCH



neral	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.
ē	Application	· For the detection of one or more points in liquid level.
9		Used in maneuvers for filling, emptying, overflow alarm, etc.
	Manufacturing	Are customized to suit the installation conditions.

Electrical connection
Housing protection
Temperatura (T<sub>a</sub>)
Cable gland
Ø Cable hose

Electrical connection
IP67
-20..+80 °C
M20 x 1,5. PA. IP68
Ø Cable hose
6..12 mm

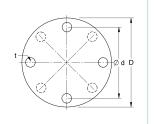
Guide tube SS AISI316 (1.4401). Ø12 mm

Length 90..3500 mm

Temperature -40..+125 °C

Mounting position Vertical, ±15°

Flange	DN25	DN32	DN40	DN50	DN100
Material					
n x t (mm)	4x14		8x18		
Ø d (mm)	85	100	110	125	180
D (mm)	115	140	150	165	220
Thickness (LCP) (mm)	18				20
	Material n x t (mm) Ø d (mm) D (mm)	Material n x t (mm) 4x14 Ø d (mm) 85 D (mm) 115	Material         SS A           n x t (mm)         4x14           Ø d (mm)         85         100           D (mm)         115         140	Material         SS AISI316 (1.4 or 1.4	Material         SS AISI316 (1.4401)           n x t (mm)         4x14         4x18           Ø d (mm)         85         100         110         125           D (mm)         115         140         150         165



	Model	FCI602M13	FEI601M13				
	Material	SS AISI316L (1.4404)					
	Dimension (mm)	Ø 44x63	Ø 52x52 30				
w	Pressure (kg/cm <sup>2</sup> )	15					
ä	Density (g/cm³)	e > 0,75	e > 0,76				
Floats	FS/FH(mm)	15,8 / 47,2	12,5 / 39,5				
			•				

ts	Nr. of contacts	15
ontacts	Class	NO: 120 WVA / 250 VAC-3A NC-NO/NC: 60 WVA / 230 VAC-1A
ပိ	Distance between them	> 40 mm

_		
tection	Standard	Normal execution without inner filling. Applicable to most applications.
e	Protected	Anti-condensation effect. In installations where there are large temperature differentials.
Prot	Insulated	Filled with epoxy resin. Establishing a higher degree of tightness.

## How to determine the sensor settings

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.

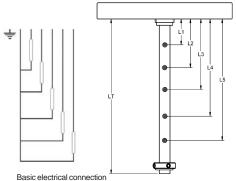
<u>Contacts</u>: To set the type of contact (NO, NC, NONC) should be without the presence of the float. For example, if you want the lower end of the sensor contact opens when the tank runs out of fluid, seek an NC contact for the position.

<u>Electrical connection</u>: 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.

<u>Conditions of work</u>: 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 any of these combinations refer to our document, "Connections and schema IMN" section in our website.



	mm	NO _/_	NC L	NONC	<u></u>	<u></u>	Stop
L1							
L2							
L3							
L4							
L5							
LT							

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 case of using additional floats, mark an "X" between what contacts should be placed caps separators.

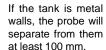
In the composition table references check boxes next to the selected features.

REFERENCE	REFERENCE VERSION		PROCESS		FLOAT		TOTAL LENGTH		Nr. CONTACTS		Nr. FLOATS	
IMN DB INOX	□ V2	Standard Protected Insulated	□ P 34 □ P 35 □ P 36 □ P 37 □ P 39	DN25 DN32 DN40 DN50 DN100		FEI601M13 FCI602M13	L	903500 mm	□ C3	1 contact 2 contacts 3 contacts 4 contacts 5 contacts	□ N2	1 float 2 floats 3 floats

To compose a reference, select an option from each of the columns. Example: IMN DB INOX V1 P34 F14 L500 C1 N1



Installations advise





The maximum slope should be ±15°



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

Still pipe. Protects the race of the float of the turbulence.



Installation in areas with turbulence

Separating wall or discouragement.

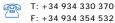


PSIA, DSIA relay: Differential control of max. and min. by timing.

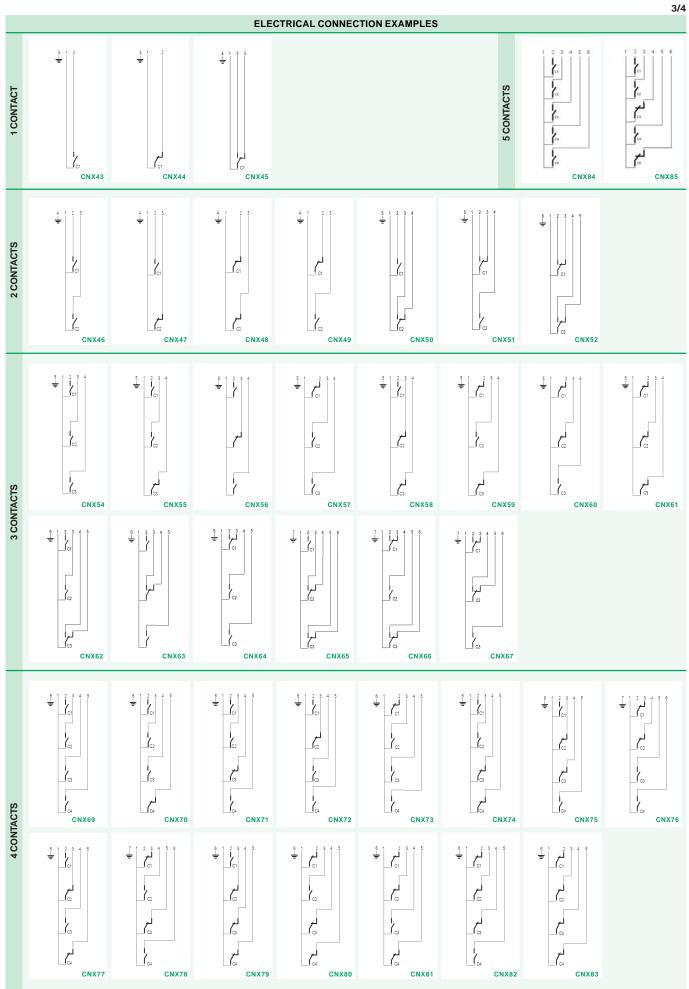












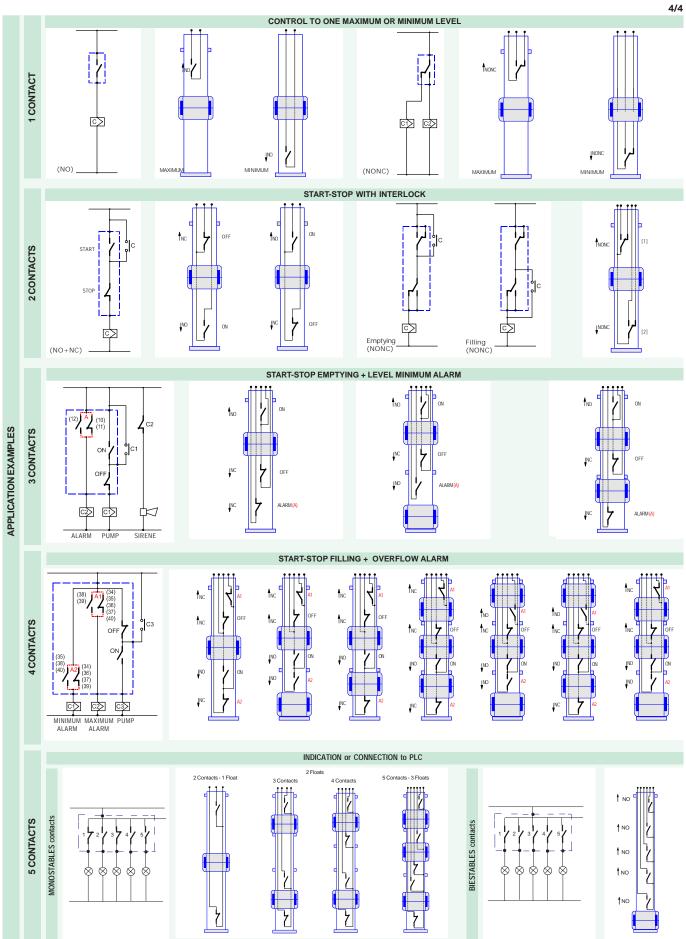
More information regarding, in "Utilities / Tables" on our website (www.disibeint.com)











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