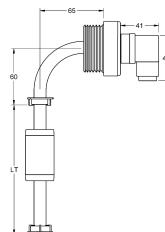


## **IMN TCA PVC**





## MAGNETIC LEVEL SWITCH



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 one or more points in liquid level.

Used in maneuvers for filling, emptying, overflow alarm, etc.

Manufacturing

Electrical connection

DIN43650 connector

DG .	Electrical connection	DIN43650 connector
ng	Protection	IP 65
using	Temperature (T <sub>a</sub> )	-20+90 °C
운	Cable gland	PG 9
	Ø Electric hose	68 mm

Guide tube - Length 100..1000 mm. Ø12 mm (PVC)

Temperature -10..+60 °C

Mounting position Bent in 90° elbow

1" G

_	Material	PVC
0	⊏C e/c (mm)	36
₹	LR (mm)	19
ne	LCP (mm)	15
Process connection	Be tempted to float is narrower than the width of thread	e/c LCP

Thread

	Model	FCPP04M14					
	Material	PP					
	Dimension (mm)	Ø 29x50					
10	Pressure (kg/cm <sup>2</sup> )	3					
ats	Density (g/cm³)	e > 0,6					
Floats	FS/FH(mm)	20 / 30					
_	-FS FH						

Contacts	Nr of contacts	13					
	Class	NO: 120 WVA / 250 VAC-3A NC-NO/NC: 60 WVA / 230 VAC-1A					
	Distance between them						

rotection	Standard	Normal execution without inner filling. Applicable to most applications.
万	Protected	Anti-condensation effect. In installations where there are large temperature differentials.
rote	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.

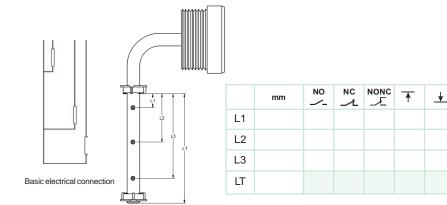
<u>Contacts</u>: To set the type of contact (NO, NC, NONC) should be without the presence of the float. For example, if you want the lower end of the sensor contact opens when the tank runs out of fluid, seek an NC contact for the position.

<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.



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.

Stop

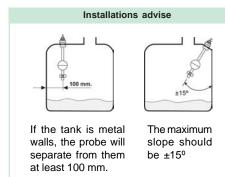
Place an "X" the type and direction of action of each contact.

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	VERSION		PROCESS		FLOAT		TOTAL LENGTH		Nr. CONTACTS		Nr. FLOATS	
IMN TCA PVC	_	Standard Protected Insulated	□ P06	1"	□ F55	FCPP04M14	L	1001000 mm		1 contact 2 contacts 3 contacts	□ N1 □ N2	1 float 2 floats

To compose a reference, select an option from each of the columns. Example: IMN TCA PVC P06 F55 L500 C1 N1





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.







