



CATALOGUE 2024











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DISIBEINT ELECTRONIC SL remains present in the field of manufacturing components for industrial automation for more than 50 years, keeping in constant evolution its wide range of products structured in different families:

- · Level sensors, magnetic switches and magnetic transducers
- · Level relays for liquids and solids
- · Timers
- · Control, monitoring and logic relays
- · Devices for Industrial IoT communication

It is a permanent concern to give an adequate response to the problems that arise during the automation of the different industrial processes, providing the most suitable material for each application.





Directive of Electromagnetic Compatibility EMC 2004/108/CEE from 15/12/2004

- Emission (UNE-EN 61000 6-4/2007/A1:2011)
- Immunity (UNE-EN 61000 6-2/2006)

Low voltage directive LVD 2006/95/CEE from 12/12/2007

- Machinery (UNE-EN -60204 -1/2007/A1:2009)
- Measuring electronic devices (UNE-EN 61010-1/2011)

Directive of certain hazardous substances

2011/65/CEE from 8/06/2011 and the ammended Annex II 2015/863/UE

The products do not contain: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr +6), Polybrominated biphenyls (PBB), Diphenyl ethers (PBDE), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Bybutyl phthalate (DBP) and Diisobutyl phthalate (DIBP).

WARRANTY

The products supplied by DISIBEINT ELECTRONIC SL have a guarantee of two (2) years against any defect due to the materials used or the manufacturing process thereof.

It does not cover the defects caused during transport or by a bad application, as well as the elements subject to wear or the direct or indirect consequences caused in the installation or by an improper use of the product.

Catalogue 2024	
· First edition:	January 29, 2024

IMPORTANT NOTE: This document may be updated several times a year and some data may vary. Whole data is constantly updated on the web and that is the one that have value for all purposes.

PRODUCTS CATALOGUE

2024

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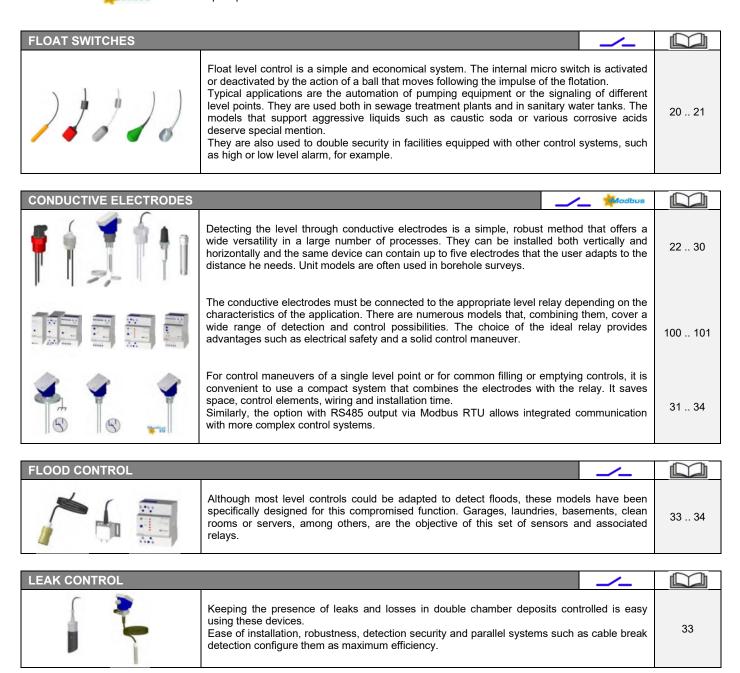
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CONTROL OF LIQUIDS: SWITCHES AND SENSORS

From a well in the middle of the field to a fuel tank, in critical tests of a chemical laboratory or in simple domestic processes, treatment plants, cleaning or storage processes, the quantity of liquid must be controlled efficiently. Since for the same application different methods can be used, then we group them by their work function indicating the advantages that each type of sensor provides.

The type of output of each family of products is indicated in the upper right corner of each table:

- Potential free contacts (relay, micro switch, reed contact) for point-to-point controls.
- Potential free contact on equipment that needs supply voltage.
- Continuous output (4-20 mA, 0-10 V, ohms) for an uninterrupted reading of the tank capacity.







TIME OF FLIGHT SENSOR	<u> </u>	
	Since this sensor is capable of detecting the presence of liquids or solids at a distance, it is especially useful for foam detection where other sensors are not capable.	37
PRESSURE SENSORS	844	
111381	The changes in hydrostatic pressure that occur when the level varies are collected in the sensor membrane and translates into a continuous electrical signal that is treated by the corresponding instruments. The ceramic capsule offers excellent long-term stability and considerable resistance to overload. With working ranges from 200 mBar to 250 bar, depending on the model, numerous types of application are covered: deep wells, fuel tanks, laboratory tests, etc., etc.	38 43
		←
ULTRASONIC SENSORS		
	The ultrasonic sensor emits impulses towards the product to be controlled, which reflects them towards the sensor. The measurement of the time that elapses from the emission of the signals until their reception translates into the height of the level in the tank. They are not in contact with the product to be measured. The choice of the right model and proper installation make up a very reliable measurement system.	44
		60
CAPACITIVE SENSORS	✓ -	
	Made of PVC and PTFE, the capacitive sensors with connection to a relay have a high resistance to abrasion wear of the products with which it is in contact.	45
	The capacitive relay incorporates the maximum-minimum level control maneuver when two sensors are connected.	104
	Capacitive sensors with direct connection do not need any specific relay but can act on PLCs, auxiliary relays, or any other device that supports their characteristics.	46
TILTING SWITCHES		ı (CY)
	Simple and effective, these switches are especially useful when features such as density, temperature or viscosity come into play. It doesn't matter if the liquid is conductive or not. The float does not contain magnetic parts and stainless models can withstand up to 200 °C. Typical applications are industrial fryers and cooler oil tanks for machine tools.	47
7 0 1	Typical applications are industrial flyers and cooler on tariks for machine tools.	
The state of the s		
PNEUMATIC SWITCH	✓ _	
	The pneumatic switches are activated by the pressure exerted by the captive air column in the tube, which is compressed when the liquid rises so that it never comes into contact with the switch membrane. They are used in the control of pumps or in signaling of different levels.	48
FLOW SWITCHES		
The T	Knowing if there is liquid circulating in our facility will determine the start-up or stop of pumps or solenoid valves. Flow switches respond to this functionality interspersed in the pipeline that needs to be controlled.	49





CONTROL OF LIQUIDS: LEVEL MAGNETIC SWITCHES

The principle of operation of the magnetic level switches is based on the action of a magnet housed in a float on contacts housed within an airtight tube. When the float reaches the point where the contact is located, it switches providing a signal that will start an alarm, act on an automaton, stop a pump or activate an electrovalve.

This apparent simplicity is capable of generating a multitude of variants combining materials, process connections, electrical connections, quantity and type of contact, etc. Except for the miniature, fixed length models, the rest of them are made to measure according to the characteristics of the tank, the working conditions and the requirements of electrical control

Taking simple protection and maintenance measures will provide a long life for these equipment.

Vertical installation models are placed at the level detection point, usually as a maximum level control. Due to its small size, it allows the control of low-rise tanks. Horizontal installation models can be placed anywhere in the tank and are suitable as a minimum level control. Various sensors distributed along the tank wall offer an economical signaling mode. MINIATURE · VARIABLE LENGTH · UP TO 3 LEVELS Small dimensions of the floats allow to occupy very little space inside the tank. They also

MINIATURE · VARIABLE LENGTH	· UP TO 3 LEVELS	_	
allo The core bas	mall dimensions of the floats allow to occupy very little space inside the to ow to reach levels very close to the bottom of it. The length is determined by the requirements of the tank containing the introlled. They are made to measure by establishing the quantity and ty used on the final need: signaling, alarm, emptying control, etc. Communicater before starting manufacturing is essential to specify the characteristics of	e liquid to be pe of contacts cation with the	62 65

STANDARD · VARIABLE LENG	GTH · UP TO 5 LEVELS		
	Robustness, precision and reliability make up the cover letter of these magne which accumulate the experience of fifty years of development. They are mar stainless steel and technical plastics, covering wide possibilities with differentiquids, from harmless to the most aggressive. The characteristics of each device are agreed with the user involving key factors process connection or the electrical connection mode as well as the working cowill determine exclusive differentiating details.	nufactured in rent types of s such as the	66 80

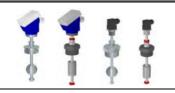
OPTION: \	WITH INTE	GRATED (OPERATION · 1 OR 2 LEVELS	
18			Simple maneuvers such as the control of a single level or a control of maximum and minimum level are resolved with the models that incorporate in the head itself the automatism and a relay output for the activation of the related control element. A convenient and fast way to start an effective automation with the minimum possible elements.	67 80

OPTION: WITH MODBUS OU	TPUT **Modbus	
Modification Magnification Report File Programme Control of the Co	The models that are provided with junction box have the option of incorporating an output with RS485 communication via Modbus RTU. An ideal method to interface with complet dashboards, remote transmission or remote control.	





ADJUSTABLE HEIGHT



Since the length cannot be altered once the equipment has been manufactured, the height-adjustable models favor a fine adjustment by displacing the tube.

Another common application is the control of changing levels depending on the type of liquid, its concentration or the needs of the application: the quick adjustment eliminates keeping duplicate elements and working time.

81 .. 82

HYBRID CONSTRUCTION



The combination of different materials in the construction of the magnetic switches provides benefits such as cost reduction, constructive improvements and dimensional adaptation.

83 .. 84

ATEX



In installations that require the intrinsic safety protection method (ia), these level switches can be installed provided they are connected to the corresponding galvanic insulators because they are considered "Simple Electrical Devices".

The category and zone of use correspond to those assigned by the barrier/insulator.

85

OPTION: TEMPERATURE SENSOR



Many models have the possibility of incorporating a temperature sensor at the lower end of the sensor.

Check the availability of this option in the chosen model.





LEVEL OF LIQUIDS: LEVEL MAGNETIC TRANSDUCERS

A continuous level measurement is essential when you need to handle processes in which few liters mean high costs, or when the measurements have to be integrated into Scada systems or control rooms.

Magnetic level transducers are precise and stable measuring instruments that are easily integrated into complex applications. That is why they are manufactured to measure and in various process connections including the special ones for food environments. We use stainless steel and technical plastics to cover the maximum possible number of liquids in the most diverse working conditions.

4-20 mA ANALOG OUTPUT The converter integrated in the sensor head can be connected to 2, 3 or 4 wire systems, providing supply voltage to the current loop if necessary. The reading resolution is 5 or 10 mm and the measurement distance can be requested to be 93..94 set at the precise distance you want to measure. The 4-20 mA loop relays are the ideal complement to obtain a system of measurement, visualization and control of deposits of any type and size. OPTION: WITH MODBUS OUTPUT Modbus The models with junction box have the option of incorporating an output with RS485 communication via Modbus RTU. An ideal method to interface with complex dashboards, 93..94 remote transmission or remote control. 711 **RESISTIVE ANALOG OUTPUT** With identical precision performance, the variation of the electrical resistance depending on the position of the float is what determines the level of liquid in the tank. 95 211 4-20 mA OUTPUT - ATEX In installations that require the intrinsic safety protection method (ia), these level transducers can be installed as long as they are connected to the corresponding insulators. The category 96 and zone of use correspond to those assigned by the barrier/insulator. **OPTION: TEMPERATURE SENSOR** Many models have the possibility of incorporating a temperature sensor at the lower end of the sensor Check the availability of this option in the model of your choice.





CONTROL OF LIQUIDS: OTHER SYSTEMS FOR MEASUREMENT AND VISUALIZATION

LEVEL MODULAR	SYSTEM			
		Using the modular level system, the detection points for each installatio comfortably established, and added or removed when necessary. A flexible solu necessarily complemented by the associated SNIA or SNI relays, which a according to their individual performance.	ution that is	87 103
LEVEL EXTERNAL	CONTROL			
		In storage systems where it is impossible to access the interior of the container control sensors solve the task of detecting the level. They detect through plastic non-conductive walls less than 8 mm thick. They are used for the rapid replacement of the container in liquid transfer sexternal display tubes, etc.	tanks with	89

BY-PASS INDICATORS		
	Bypass level indicators can adopt various configurations depending on the characteristics of the tank in which they are installed. To the simple visual indication can be added externally spot detection controls as well as transmitters for continuous level reading.	90

VISUAL CONTROL		
	A single opening in the upper part of the tank may be sufficient to place these visual controls that, inversely to the liquid level, indicate their state. As with the by-pass indicators, they can be complemented with spot detection controls or with transmitters with 4-20 mA output.	91



CONTROL OF SOLIDS

The control of the level of solid products demands specific requirements in the detection elements. Among others are the adapted installation forms, robustness and durability, all taken into account during the design process of these equipment.

CAPACITIVE SENSORS	✓ _	
	Made of PVC and PTFE, the capacitive sensors with connection to a relay have a high resistance to abrasion wear of the products with which it is in contact.	45
-/ m/	The capacitive relay incorporates the maximum-minimum level control maneuver when two sensors are connected.	104
	Capacitive sensors with direct connection do not need any specific relay but can act on PLCs, auxiliary relays, or any other device that supports their characteristics.	46
MEMBRANE SWITCHES		
	They are installed in the walls of tanks or silos so that the product, upon reaching its location, acts on the internal micro switch and it executes the control or alarm systems to which it is connected.	51
	The membranes of different materials and qualities allow contact and resistance to a large number of products.	
ROTARY PADDLE SWITCHES		
	When the product being controlled reaches the height of the rotating blade, it stops it and a contact is activated that will act on the control or alarm systems.	
テノレア	They can withstand large loads. There are numerous combinations of dimensions and blades with the aim of covering as many products as possible and with the greatest diversity of working conditions.	52
DISPLACEMENT SWITCHES		
7 7	Installed on the roof of the silo, they are especially suitable for the detection of products that form a slope during loading. When the material displaces the cone from the lower end, a micro switch acts in turn connected to the corresponding control system.	53
A A		
VIBRATING SENSORS		
	The vibration detection system is suitable for solid products, either in grain or powder. The different types of models are chosen based on the average density of the product to be controlled, its humidity or its particle size.	54

OTHER FUNCTIONS

WIND SPEED	✓_	
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Cranes, ornamental fountains, awnings or other outdoor facilities are likely to be damaged by the force of the wind. The conjunction of a resistant anemometer with the relay that collects and manages its signal makes up a key element in this type of installation.	97 98

ACCESSORIES

Accessories can be decisive in completing an installation more safely or simply with a better finish. Often necessary and other times essential. Here you will find the elements with which to complement the installation or commissioning of sensors and relays.



RELAYS

The evolution of industrial automation is not understood without the presence of relays. Leaving aside the classic maneuvering relays, the functions associated with the action of the contacts reinforce their presence in most of the processes that depend on time, voltage, a limit switch or many other variables.

We manufacture relays in three different box formats, adapting to the demands of the industry: firstly the plug-ins to the undecal connection base, the most comfortable way to wire in the electrical cabinet and replace if necessary. Secondly, those that have direct fastening to rail, bottom panel. And finally those that are installed in standard 45 mm cabinets. Three alternatives for the same function.

LEVEL RELAYS			
	THEO C.	Level relays for conductive liquids cover a wide range of detection and control possibilities. Choosing the ideal relay provides advantages such as electrical safety and a solid control operation. The level relays for solids using capacitive sensors incorporate the appropriate maneuvers	100 103
		for optimal control.	104

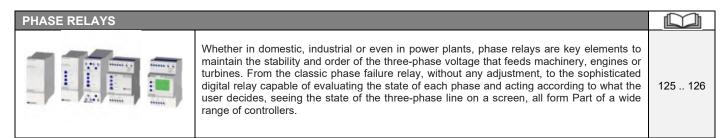
TIMERS		
	Automation often means that the time between processes or their duration is key to obtaining a satisfactory result, repeated tirelessly throughout repetitive cycles. The special timing functions designed for specific tasks coexist with the classic ones by configuring a complete range of elements for efficient time management On connection, on interval	106 107
	Symmetrical cycle ····································	108 109
	Multifunction ····································	110 111 112
	Special fullctions	112

VOLTAGE RELAYS		
sies man	Maintaining adequate voltage margins at the input of motors or compromised lines ensures that no inconvenience will appear during the work day. Whether in alternating current, continuous or three-phase, the voltage relays monitor and control the appearance of high voltage spikes or unexpected drops. Beyond the models with analog adjustment, the digital ones provide accuracy in the adjustment, precise information and multiply the output and communication options. AC Single phase DC Single phase Three-phase voltage without neutral	114 115 116 117 118 119

CURRENT RELAYS AND CURRENT LOOP RELAYS		
mace mace mace	Monitoring and controlling the intensity that circulates through the elements of our facilities ensures optimum performance. From a few milliamps to many amps, either alternating or continuous, the intensity relays offer various functions for thorough monitoring. The current loop relays are designed to integrate with sensors, displays and other components that work under the same 4-20 mA loop. They provide food, set slogans and show the translated values to the units of each process. AC current DC current 4-20 mA loop	102 121 122 123 124







TACHOMETRIC RELAYS		
mace mace	Connected to turn detection sensors, tachometric relays monitor the RPM of engines, turbines, generators or anemometers to act at the selected detection points. Digital models facilitate adjustment and visualization precisely.	127

PUMPS CONTROL		
	A balanced management of bilge systems or others in which several pumps are involved is essential to save time and extend the life of the pumps. Pump control relays have functions for individual or alternative control of 2 or 3 pumps.	128

RELAYS FOR SENSORS		
EV AAA	These relays provide power for three-wire sensors and amplify their response in a potential-free contact mode.	129

LOGICAL FUNCTIONS		
200	They convert signals from sensors or limit switches into logical functions.	130

CONTACTS PROTECTION		
	Also known as contact amplifiers, they are associated with instruments with low breaking capacity to amplify their signal, perform pre-established maneuvers or delay their execution.	131



INDUSTRIAL IoT: The Industrial Internet of Things

Sensors and relays usually work locally, at the foot of warehouses, machinery, instruments, etc. If until now your actions and results had to be transmitted through buses with extensive cabling, IoT technology opens a new scenario where data is transmitted wirelessly, at high speed and in greater quantity. Its remote storage in the cloud along with the powerful analysis tools that can be executed from any web browser, anywhere, extends the possibilities of control and efficiency to limits that are yet to be defined.

This technology is called to revolutionize current automation systems. We join it incorporating level sensors, communication equipment, signal concentrators and a web platform that configure an essential set for the expansion and improvement of existing facilities as well as the development and application of new.

COMMUNICATION		
	dePACK is an IoT datalogger with conductive, analog 4-20 mA, PNP, Namur, capacitive and potentiometric inputs, equipped with different types of communication: RS232, RS485, Ethernet, GPRS, LoRa, Wi-Fi. Elements for the connection via RS485 of multiple sensors and their communication via LoRa to the signal concentrator. Equipment for receiving and sending remote signals.	134

LIQUIDS LEVEL		
Modbus	Conductive electrodes, magnetic switches and magnetic transducers with Modbus RTU communication option are basic elements for measuring, controlling and displaying the level in IoT systems.	135

ENERG	SY		
2007	-9	The single-phase or three-phase network meters are the ideal complement to keep under control the parameters of the supply voltage line in our facilities, allowing the detection of unexpected consumptions as well as optimizing work times and processes.	136

deDAT		
	IoT Cloud platform, customizable for each application. It allows to group data from different applications and execute remote control actions and alarms in real time. Analysis and data processing, generation of reports. Available for desktop, mobile and tablet devices.	137



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AG-5104-B 143	DFDS	400	DTO			
		126	DTSA	109	IMN BC PVC INOX PA	83
	DFDT	126	DTTA	112	IMN BCA PP	78
AG-5202-B2 142	DFEA	125	DTUA	109	IMN BCM INOX	65
В	DFEB	125	DTUB	109	IMN BCM INOX PA	83
BP 100 INOX 90	DFFA	126	DTWA	108	IMN BP INOX	69
BP 100 PP 90	DFFB	126	DTWB	108	IMN BP PP	78
BP 100 PVDF 90	DHAA	127	DTZA	110	IMN CB INOX	71
BP 200 INOX 90	DHBA	127	DTZB	110	IMN CBM INOX	65
BP 300 INOX 90	DLAS	130	DVAA	114	IMN CC INOX	71
BP 300 PVC 90	DNAS	104	DVAB	114	IMN CCM INOX	65
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BPCBA-50 92	DNDA	100	DVCB	116	IMN DB PVDF	80
С	DNEA	100	DVDA	116	IMN DBA INOX	70
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CNV 120 54	DTAB	109	DVST	115	IMN RCA PP	72
CNV 120 EX 54	DTAG	109	F	113	IMN RP INOX	66
CNV 150 54	DTBA	128	FCPP06M18	92	IMN RP PP	72
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DAAB 120	DTCG	106	IMN 20 PP	58	IMN RPMA INOX	62
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deHUB ETH 100	DTMA	109	IMN 52 INOX H	59	IMN TBM INOX	63
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DFBT 126	DTPA	112	IMN 70 LATON	56	IMN TC12 PP	74
DFCS 125	DTRA	111	IMN BB INOX	69	IMN TCA INOX	67

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IMN TCA12 INOX	67	MPM	141	NR.SEP/P	140	PMPA	128
IMN TCA12 PP	74	MPS 05	141	NR.SEP/T	140	PNAS	104
IMN TCM INOX	63	MPS 80	141	NR.TUE/P 1 1/2	140	PNAT	104
IMN TCM INOX PP	83	N		NR.TUE/T 1 1/2	140	PNCA	100
IMN TCM PVC INOX PP	83	N DN50	30	NRA 1 1/2	22	PNCB	100
IMN TCM12 INOX	63	NB	25	NRA 1 1/2 M12	23	PNDA	100
IMN TCMA INOX	63	NB/E1	140	NRA 1 1/2 PG9	23	PNEA	100
IMN TCMA12 INOX	63	NB/E2	140	NRAI 1 1/2	23	PNFA	100
IMN TP INOX	67	NCAR AB PVC	36	NRAI 1 1/2 M12	23	PNGA	100
IMN TPA INOX	67	NCI	28	NRAI 1 1/2 PG9	23	PNHA	100
IMN TPA PP	74	NCPR CB INOX	33	NRI 1 1/2	22	PNSA	100
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IMNR TB PVDF	77	NCVRI CB INOX	34	PAC	141	PTBC	128
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SUPPLY VOLTAGES

	A
	Transformer
	With isolation
Code	Value
024	24 V
048	48 V
110	110 V
115	115 V
125	125 V
220	220 V
230	230 V
240	240 V
380	380 V
400	400 V
415	415 V
440	440 V
500	500 V

С	apacitor
Witho	out isolation
Code	Value
810	110 V
820	220 V
824	24 V
830	230 V
834	24 VACDC
	+230 VAC
840	240 V

	DC
Withou	t isolation
Code	Valor
710	110 V
712	12 V
720	220 V
724	24 V
725	125 V
748	48 V
772	72 V

With isolation			
Code	Value		
624	24 V		

AC/DC With isolation Without isolation Analogic relays Code Value Code Value U12 12 V 901 15..70 V U24 24 V 902 60..240 V U40 24..240 V

Digital relays			
Code Value			
903	1570 V		
904	60240 V		

RANGES

	TIME
Code	Value
38	3 s
15S	15 s
30S	30 s
1M	1 m
2M	2 m
3M	3 m
5M	5 m
10M	10 m
15M	15 m
30M	30 m
1H	1 h
2H	2 h
3H	3 h
100	0,01 s100 h
192	1 s192 h
16M	15 s16 m
8H	8 m8 h
18H	2 s18 h

	•
18H	2 s18 h
RES	SISTIVITY/LEVEL
Code	Value
100	10100 KΩ
45K	845 KΩ
4M7	200 ΚΩ4,7 ΜΩ
5N	15 niveles
80N	180 niveles

VOLTAGE		
Code	Value	
4V	4 V	
12V	12 V	
20V	20 V	
24V	24 V	
48V	48 V	
50V	50 V	
72V	72 VDC	
110	110 VDC	
125	125 V	
200	200 V	
220	220 VAC	
230	230 VAC	
400	400 VAC	
500	500 VAC	
690	690 VAC	
8500	8500 VCA	

FREQUENCY		
Code	Value	
50	50 Hz	
60	60 Hz	

CURRENT	
Code	Value
V05	50 mV
V06	60 mV
V10	100 mV
V15	150 mV
1MA	1 mA
5MA	5 mA
A02	20 mA
A10	100 mA
A20	200 mA
A50	500 mA
1A	1 A
2A	2 A
5A	5 A

R.P.M		
Code Value		
15K	30015.000	
3K	33.000	

DIGITAL CONTROL RELAYS

INTERFACE			
Code Value			
9	With display 4 languages		
Q	Without display Without comm.		
U	With display RS232/RS485		

No	Nº RELAYS		
Code	Value		
0	Without relays		
3	3 relays		

RE	RELAY TYPE		
Code	Value		
0	Without relays		
Α	SPST NO		

COMMUNICATION		
Code	Value	
0	Without bus	
4	4-20 mA	
3	RS232	
8	RS485	

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CE CONFORMITY DECLARATION QUALITY CERTIFICATE

The company

DISIBEINT ELECTRONIC SL Segle XX, 91 E08032 Barcelona - Spain VAT: B-60893849

Declares under its sole responsability that the following products:

- Float Switches with generic references INCR, INMR, INME, INMF
- Level sensors and your accessories, with generic references NS, NR, NCP, NCV, NP, SC, CNM, CNP, CNPR, CNV, SVR, IBT, BPCB, BPCBA, CBBP
- Level Magnetic Switches with generic reference IMN
- Level Magnetic Transducers with generic references TMN, TMR
- Electronic relays embraced under the generic denomination of the series Pnnn, Dnnn and Snnn, being 'nnn' any combination of letters and/or numbers that make up a specific reference

identified with the brand DISIBEINT, have been manufactured according to the instructions of our procedure manual and are in conformity with:

Directive of Electromagnetic Compatibility EMC 2014/30/UE from 26/02/2014

- Emission (UNE-EN 61000 6-4/2007/A1:2011)
- Immunity (UNE-EN 61000 6-2/2006)

Low Voltage Directive LVD 2014/35/UE from 26/02/2014

- Machinery (UNE-EN 60204 -1/2007/A1:2009)
- Measuring Electronic Devices (UNE-EN 61010-1/2011)

Directive about certain hazardous sustances 2011/65/UE from 08/06/2011 and the ammended Annex II 2015/863/UE

The products do not contain: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr+6), Polybrominated biphenyls (PBB), Diphenyl ethers (PBDE), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Bybutyl phthalate (DBP) and Diisobutyl phthalate (DIBP).

Any trace of impurities of the substances in the parts is below the levels specified by RoHS. No excepcions are made.

Barcelona, May 2021

CONVENTIONS USED IN THIS TARIFF



CONDUCTIVE SENSORS

Prices are calculated for any length up to 1000 mm for all electrodes, unless otherwise stated.



MAGNETIC SWITCHES

Prices are calculated for any length up to 1000 mm and provided with 1 standard float depending on the model, unless otherwise indicated.



For all items with configurable options, these can condition the final price.

The options can be configured in the tab of each product at www.disibeint.com.



Prices are expressed in Euros.

Prices may vary throughout the duration of this tariff. Check the permanently updated prices at www.disibeint.com, which are the ones that have value for all purposes.



Consult with us

SENSORS







- Application
 It can be used in wells, reservoirs, ponds and installations requiring liquid level control
 Very used to protect pumping systems
 They are easy to install and require no maintenance

Image	Reference / Description	Cable (m)	Price
- 7	INCR	2	
)	· Maximum or minimum control	5	
	 For clean waters Reduced dimensions: ø28x157 mm 	10	
	Manufactured in PE Micro-switch commute. 4 A / 230 VAC		
	+60 °C. 1 kg/cm². IP68		
- 1	INMR ECO	6	
/	· Maximum or minimum control	10	
/	 For dirty or residual waters Manufactured in PP 	15	
	· Microswitch SPDT 10 A / 250 VAC	20	
	· +60 °C. 6 kg/cm². IP68	30	
1	INMR INOX	3	
/	· Maximum or minimum control	6	
	 For chemicals and liquids with temperature Manufactured in SS AISI316 (1.4401) 	10	
	· Microswitch SPDT 5 A / 250 VAC	20	
	· +100°C. IP68	30	
	INME - Maximum and/or minimum control - For dirty and residual waters without crusts growing - Manufactured in PE	2	
4		5	
/		10	
	· Microswitch SPDT 10 A / 250 VAC		
	· +60 °C. 5 kg/cm². IP68		
	INME ECO	5	
/	· Maximum or minimum control	10	
/	 For clean waters and few shaked liquids Manufactured in PP Microswitch SPDT 16 A / 250 VAC 	15	
		20	
	· +70 °C. 3,5 bar. IP68		
	INMF	5	
/	· Maximum or minimum control	10	
/	For clean waters and few shaked liquids Manufactured in PP		l
	· Microswitch SPDT 20 A / 250 VAC		
	· +85 °C. 3,5 kg/cm². IP68		
	INMR	2	
	Maximum and/or minimum control	5	
T	· For clean and residual waters without crusts growing	10	
	Manufactured in Polystyrene antishock Microswitch SPDT 15 A / 250 VAC	.0	



Microswitch SPDT 15 A / 250 VAC
 +60 °C. 4 kg/cm². IP68

2	
5	
10	







Image	Reference / Description	Cable (m)	Price
1	INMR VS	5	
	Maximum or minimum control For liquids specially shaked Large working angle: 165° Manufactured in PP copolymer Microswitch SPDT 20 A / 250 VAC	10	



INMR AMS

- · Maximum or minimum control
- · Compulsory use in drinking water

· +85 °C. 3,5 kg/cm². IP68

- Large working angle: 165°
 Manufactured in especial PP, certif. ACS
 Microswitch SPDT 16 A / 250 VAC
- +85 °C. 3,5 kg/cm². IP68

5	
10	
15	



INMR HYP

- · Maximum and/or minimum control
- For chemicals and agressive liquids
 Manufactured in Hypalon
 Microswitch SPDT 16 A / 250 VAC
 +90 °C. 4 kg/cm². IP68

5	
10	



INMR HYP EX

- · Maximum and/or minimum control
- · Used in classified zones (gas or powder)
- · Manufactured in Hypalon
- · Microswitch SPDT 10 mA / 24 VAC/DC
- · -20..+70 °C. 4 kg/cm². IP68
- · CE0081 II I G Ex ia IIC IP6X To 70°C LCIE 00 ATEX 6003 X

5	
10	



SG

- · Guided support for the connection and installation of various types of sensors: float switches, conductive sensors, magnetic switches, etc.
- · Process connection: thread 1"1/2, PVC
- · Incorporates counterweight to maintain the verticality of the assembly

Accessories INCR	Price
PVC plug for holding the sensors INCR, 1 "G	

Products related with FLOAT SWITCHES					
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131				
Timer anti turbulence: PSIA/DSIA	112				
Relays for the control of pumps	128				

USEFUL INFORMATION Filling control using the relay PSPS Emptying control using the relay PSPS Filling control **Emptying control** The joint use of the PSPS relay and an auxiliary relay allows the start-stop maneuver in an emptying application. Use the NO contacts at rest. PSPS relay simply performs the start-stop operation in a filling application. Use the NO contacts at rest. Use the NC contacts at rest. Use the NO contacts at rest.



- Application · Exclusive use in conductive liquids, are used to control level points both independent or combined into small tanks or in deep wells
 - · Need to connect to a standard relay for conductive liquids
 - · The number of electrodes is determined by the function of the chosen relay

- Common data · Electrodes made of SS AISI316 (1.4401)
 - · The electrodes can be cut to adjust the desired level point

Image	Reference / Description	Connection	1 E	2 E	3 E	4 E	5 E
	NR 1 1/2	1′′1/2					
	 Process connection: Top screw PVC 1"1/2 G Electrical connection: DIN43650 connector Temperature: +70 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP65 Maximum 4 electrodes 						
	NRI 1 1/2	1′′1/2					

1′′1/2

1′′1/2

1′′1/2

1′′1/2



NKI 1 1/2

- · Electrodes isolated with Polyolefine PE
- · Process connection: Top screw PVC 1"1/2 G
- · Electrical connection: DIN43650 connector
- · Temperature: +70 °C
- Pressure: 5 kg/cm² (to 20 °C)
 Protection: IP65
- · Maximum 4 electrodes



NR 1 1/2 PG9

- · Process connection: Top screw PVC 1"1/2 G
- · Electrical connection: Cable 3 m
- Temperature: +70 °C
- Pressure: 5 kg/cm² (to 20 °C)
- · Protection: IP66
- Maximum 5 electrodes



NRI 1 1/2 PG9

- · Electrodes isolated with Polyolefine PE
- Process connection: Top screw 1"1/2 G (PVC)
 Electrical connection: Cable 3 m (PVC)
- · Temperature: +70 °C
- · Pressure: 5 kg/cm² (20 °C)
- · Protection: IP66
- · Maximum 5 electrodes



NR 1 1/2 M12

- · Process connection: Top screw PVC 1"1/2 G
- · Electrical connection: M12 connector
- · Temperature: +70 °C
- Pressure: 5 kg/cm² (to 20 °C)
- · Protection: IP65
- · Maximum 4 electrodes



NRI 1 1/2 M12

- · Electrodes isolated with Polyolefine PE
- · Process connection: Top screw PVC 1"1/2 G
- · Electrical connection: M12 connector
- · Temperature: +70 °C
- Pressure: 5 kg/cm² (to 20 °C)
- Protection: IP65
- · Maximum 4 electrodes



NRA

- · It can be used with alimentary and pharmaceutical products
- · Process connection: Top screw 1"1/2 G (PTFE)
- · Electrical connection: DIN43650 connector
- · Temperature: +100 °C
- Pressure: 1 kg/cm² (20 °C)
- · Protection: IP65
- · Maximum 4 electrodes

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Image	Reference / Description	Connection	1 E	2 E	3 E	4 E	5 E
	NRAI 1 1/2	1′′1/2					
5	Electrodes isolated with PTFE. It can be used with alimentary and pharmaceutical products Process connection: Top screw 1"1/2 G (PTFE) Electrical connection: DIN43650 connector Temperature: +100 °C Pressure: 1 kg/cm² (to 20 °C) Protection: IP66 Maximum 4 electrodes						
0	NRA 1 1/2 PG9	1′′1/2					
	 It can be used with alimentary and pharmaceutical products Process connection: Top screw 1"1/2 G (PTFE) Electrical connection: Cable 3 m (Silicone) Temperature: +100 °C Pressure: 1 kg/cm² (to 20 °C) Protection: IP66 Maximum 5 electrodes 						
700	NRAI 1 1/2 PG9	1′′1/2					
	Electrodes isolated with PTFE. It can be used with alimentary products Process connection: Top screw 1"1/2 G (PTFE) Electrical connection: Cable 3 m (Silicone) Temperature: +100 °C Pressure: 1 kg/cm² (to 20 °C) Protection: IP66 Maximum 5 electrodes						
	NRA 1 1/2 M12	1′′1/2					
	 It can be used with alimentary and pharmaceutical products Process connection: Top screw 1"1/2 G (PTFE) Electrical connection: M12 connector Temperature: +100 °C Pressure: 1 kg/cm² (20 °C) Protection: IP65 Maximum 4 electrodes 						
	NRAI 1 1/2 M12	1′′1/2					
	Electrodes isolated with PTFE. It can be used with alimentary and pharmaceutical products Process connection: Top screw 1"1/2 G (PTFE) Electrical connection: M12 connector Temperature: +100 °C Pressure: 1 kg/cm² (to 20 °C) Protection: IP66 Maximum 4 electrodes						
	NCVS TP PP	1′′					
	Process connection: Top screw 1" G (PP) Electrical connection: PVC cable (3 meters) Temperature: +70 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP67 Maximum 3 electrodes						
	NCVS TC PP	1″					
5	Process connection: Top screw 1" G (PP) Electrical connection: connector DIN43650 Temperature: +70 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP65 Maximum 3 electrodes		1	I		J	



lmess	Potoronos / Dossyintian	Connection	1.5	2.5	2.5	1 -	5.5
Image	Reference / Description	Connection 1''	1 E	2 E	3 E	4 E	5 E
	NCVS TC12 PP Process connection: Top screw 1" G (PP) Electrical connection: connector M12 Temperature: +70 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP65 Maximum 3 electrodes	1					
	NCVSI TP PP	1"					
	 Electrodes isolated with Polyolefine PE Process connection: Top screw 1" G (PP) Electrical connection: PVC cable (3 meters) Temperature: +70 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP67 Maximum 3 electrodes 					•	
	NCVSI TC PP	1′′					
	 Electrodes isolated with Polyolefine PE Process connection: Top screw 1" G (PP) Electrical connection: connector DIN43650 Temperature: +70 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP65 Maximum 3 electrodes 						
	NCVSI TC12 PP	1′′					
	 Electrodes isolated with Polyolefine PE Process connection: Top screw 1" G (PP) Electrical connection: connector M12 Temperature: +70 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP65 Maximum 3 electrodes 						
1.5-0.7	NRX 1	1′′					
	 Process connection: Top screw. 1" G. SS AISI316 (1.4401) Electrical connection: Silicone cable (1 meter) Temperature: +100 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP66 Maximum 2 electrodes 						
	NRXI 1	1"					
	Electrodes isolated with PTFE Process connection: Top screw. 1" G. SS AISI316 (1.4401) Electrical connection: Silicone cable (1 meter) Temperature: +100 °C Pressure: 1 kg/cm² (to 20 °C) Protection: IP66 Maximum 2 electrodes				•		
	NT	1/4′′					
1	Electrode for independent level points Process connection: Nipple 1/4" G. SS AISI316 (1.4401) Electrical connection: Terminal by screw Temperature: +140 °C Pressure: 5 kg/cm²		1	1			

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Image	Reference / Description	Connection	1 E	2 E	3 E	4 E	5 E
	NTM PVC	1/2′′-3/4′′-1′′					
*	 Electrode for independent level points Fast height adjustment Process connection: Nipple 1/2", 3/4", 1" G. PVC, PTFE, PVDF Electrical connection: Terminal by screw Temperature: +60 °C (PVC) / +140 °C (PTFE/PVDF) Pressure: Atmosférica Protection: IP50 						
	ND	1/2′′		1			
1	NB Electrode holder for independent level points For tanks with pressure and temperature Process connection: Nipple 1/2" G. SS AISI316 (1.4401) Electrical connection: Terminal by screw Temperature: +220 °C Pressure: 20 bar The electrodes must be ordered separately (see [Accessories NB] at the end of this section)	1/2					
	NRT2 PG9	1/2′′					
•	 Electrode for liquid detection in pipes Electrode material: SS AISI303 (1.4305) Process connection: Top screw. 1/2" G (PVC) Electrical connection: PVC Cable, 3 meters Temperature: +70 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP50 						
-	NRT2 TC	1/2′′					
	 Electrode for liquid detection in pipes Electrode material: SS AISI303 (1.4305) Process connection: Top screw. 1/2" G (PVC) Electrical connection: DIN43650 connector Temperature: +70 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP50 						
	NTBI	1/4′′-1/2′′					
1119	· Used in alimentary and pharmacy processes	3/4′′-1′′			1		
A	 Process conn.: Thread 1/4", 1/2", 3/4" or 1" G. SS AISI316 (1.4401) Electrical connection: SS connection housing Temperature: +100 °C Pressure: Atmospherical Protection: IP67 Maximum 2 electrodes 				1		
-	NTBII	1/4′′-1/2′′					
V.	Used in alimentary and pharmacy processes Electrodes isolated with PTFE Process conn. Top screw. 1/4", 1/2", 3/4" or 1" G. SS AISI316 Electrical connection: SS Connection housing Temperature: +100 °C Pressure: Atmospherical Protection: IP67 Maximum. 2 electrodes	3/4′′-1′′					
	NCPS TB INOX	1′′					
Madbus	The common electrode is the process connection Process connection: Nipple. 1" G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Temperature: +100 °C Pressure: 5 kg/cm² (at 20 °C) Protection: IP67 Maximum 3 electrodes		•	•	•		

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Screw nut PTFE 1' '1/2G

Image	Reference / Description	Connection	1 E	2 E	3 E	4 E	5 E
	NCPSI TB INOX	1"					
Madbus	The common electrode is the process connection Electrodes isolated with PTFE Process connection: Nipple 1" G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Temperature: +100 °C Pressure: 1 kg/cm² (to 20°C) Protection: IP67 Maximum 3 electrodes					I	
	NCVS TB INOX	1"					
Madbus	Process connection: Nipple 1" G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Temperature: +100 °C Pressure: 5 kg/cm² (to 20°C) Protection: IP67 Maximum 3 electrodes			I		I	
	NCVSI TB INOX	1"					
Modbus RTU	Electrodes isolated with PTFE Process connection: Nipple. 1" G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Temperature: +100 °C Pressure: 1 kg/cm² (to 20°C) Protection: IP67 Maximum 3 electrodes					ı	
	NCVS TB PVC	1′′1/2					
Madbus 810	 Process connection: Nipple. 1"1/2 G. PVC Electrical connection: Connection housing. PBT Temperature: +70 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP67 Maximum 5 electrodes 						
	NCVSI TB PVC	1′′1/2					
Madbus	 Electrodes isolated with Polyolefine PE Process connection: Nipple. 1"1/2 G. PVC Electrical connection: Connection housing. PBT Temperature: +70 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP67 Maximum 5 electrodes 						
	NCVSC TB PVC	1′′1/2					
Madbus	 Electrode holding: Twisted wire Ø3 mm. SS AISI316 (1.4401). Process connection: Top screw. 1"1/2 G (PVC) Electrical connection: Connection housing. PBT Temperature: +70 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP67 Maximum 5 electrodes 						
Rod SS Rod SS PVC cal Silicone	Ø5 mm without covering (1 m) Ø5 mm with Poliolefine PE covering (1 m) Ø5 mm with PTFE covering (1 m)		Price				
	eparator in PTFE						
	out PVC 1' '1/2G						
	, DTEE 414/00	+					

Acces	sories NCPS-NCVS	Price
	Rod SS Ø5 mm without covering (1 m)	
	Rod SS Ø5 mm without covering (1 m)	
	Rod SS Ø5 mm with PTFE covering (1 m)	
	KNT8: Module for RS485 Modbus RTU communication	

Acces	sories NB	Price
	Electrode 1 m	
	Electrode 2 m	

Accessories NCVSC		
Twisted cable Ø3mm, SS AISI316 with PVC covering (1m)		
KNT8: Module for RS485 Modbus RTU communication		

USEFUL INFORMATION

Basic concepts

Conductive electrodes must be connected to level relays, which are specially designed to correctly handle the signal collected by said electrodes. The level relay is chosen according to the specific control function of each installation. See pages 28 and 29 for the different

DISIBIENT ELECTRONIC SL is not responsible for the behavior of these devices if they are connected to relays of other manufacturers.

Factors to consider

The correct operation of the electrode / relay assembly is based on several factors:

- The type of liquid container (well, reservoir, carafe, tank, ...)
- The resistivity / conductivity of the liquid to be controlled.
- The location of the electrodes in the tank, especially the common or reference electrode.
- Cable type and distance from electrodes to level relay
- Electromagnetic interferences or disturbances that can be radiated by external elements (frequency inverters).

Common or reference electrode

It is one of the key elements in the installation because the reading of the conductivity of the medium is always taken between it and the rest of the electrodes.

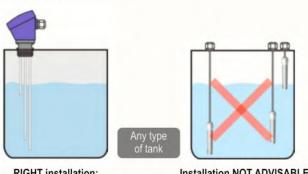
The common electrode must always be in contact with the medium, so make sure that its lower end is located in the lower part of the tank or immediately below the lower electrode (minimum level or minimum level alarm).

The ideal location places it as close as possible to the other electrodes. The greater the distance between the common electrode and the rest, the worse the behavior of the set may be since

- The higher the resistivity is measured and it may be that it moves away from the measuring range of the relay. There are different types of relays for different ranges of resistivity.
- The sensitivity to disturbances radiated by electromagnetic interference that may cause unsuspected effects on the level relay will be greater.

If the tank is metallic, it can be used as a common electrode since the medium will always be in contact with it. It is advisable that the rest of the electrodes are located as close as possible to the tank walls in order to avoid the aforementioned problems.

Placement of the electrodes

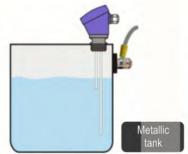


RIGHT installation:

The electrodes remain close to each other.

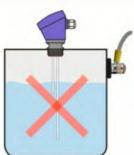
Installation NOT ADVISABLE:

The electrodes remain away from the common electrode.



RIGHT installation:

The electrodes remain close to the common electrode. which is the tank wall.



Installation NOT ADVISABLE:

The electrodes remain away from the common electrode. which is the tank wall.



- Application · Exclusive use in conductive liquids, are used to control level points both independent or combined into small tanks or in deep wells
 - · Need to connect to a standard relay for conductive liquids
 - · The number of electrodes is determined by the function of the chosen relay

- Common data · Electrodes made of SS AISI316 (1.4401)
 - · The electrodes can be cut to adjust the desired level point

Image	Reference / Description	Connection	1 E	2 E	3 E	4 E	5 E
1	NCI Use in alimentary and pharmacy industries Connection to process: Clamp flange. 1". SS AISI316 (1.4401) Electrical Connection: Cable silicone Temperature: +100 °C Pressure: 1 kg/cm² Protection: IP66 Maximum 2 electrodes	1"					
	NCPS DB INOX	DN25					

DN25

2"

2′′

DN25

DN25



NCPS DB INOX

- The common electrode is the process connection
 Process connection: Flange. DN25. SS AISI316 (1.4401)
 Electrical connection: PBT housing
- · Temperature: +100 °C
- Pressure: 5 kg/cm² (to 20 °C)
 Protección: IP66
- · Maximum 3 electrodes



NCPSI DB INOX

- The common electrode is the process connection
 Electrodes isolated with PTFE
- Process connection: Flange. DN25. SS AISI316 (1.4401)
- · Electrical connection: PBT housing
- Temperature: +100 °C
- Pressure: 1 kg/cm² (to 20 °C)
- · Protection: IP66
- · Maximum 3 electrodes



NCPS CB INOX

- The common electrode is the process connection Process connection: Clamp flange. 2" G. SS AISI316 (1.4401)
- · Electrical connection: PBT housing
- · Temperature: +100 °C
- Pressure: 5 kg/cm2 (to 20 °C)
- · Protection: IP67
- · Maximum 3 electrodes



NCPSI CB INOX

- · The common electrode is the process connection
- · Electrodes isolated with PTFE
- · Process connection: Clamp flange. 2" G. SS AISI316 (1.4401)
- · Electrical connection: PBT housing
- · Temperature: +100 °C
- Pressure: 1 kg/cm² (to 20 °C)
- Protection: IP67
- Maximum 3 electrodes



NCVS DB INOX

- · Process connection: Flange DN25. SS AISI316 (1.4401) • Electrical connection: Connection housing. PBT • Temperature: +100 °C

- Pressure: 5 kg/cm² (a 20 °C)
 Protection: IP67
- · Maximum 3 electrodes



NCVSI DB INOX

- · Electrodes isolated with PTFE · Process connection: Flange DN25. SS AISI316 (1.4401)
- · Electrical connection: Connection housing. PBT
- · Temperature: +100 °C
- Pressure: 1 kg/cm2 (to 20 °C)
- · Protection: IP67
- · Maximum 3 electrodes

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Image	Reference / Description	Connection	1 E	2 E	3 E	4 E	5 E
	NCVS CB INOX	2′′					
Madbus	The common electrode is one of the rods Process connection: Clamp flange 2" G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Temperature: +100 °C Pressure: 5 kg/cm² (to 20 °C) Protection: IP67 Maximum 3 electrodes						
	NCVSI CB INOX	2′′					
	· Flectrodes isolated with PTFF					-	

DN25

DN25

DN25



· Process connection: Clamp flange 2" G. SS AISI316 (1.4401)

· Electrical connection: Connection housing. PBT

· Temperature: +100 °C

· Pressure: 1 kg/cm² (to 20 °C)

· Protection: IP67

· Maximum 3 electrodes



NCVS DB PVC

Process connection: PVC flange DN25
 Electrical connection: PBT housing
 Temperature: +70 °C

Pressure: 5 kg/cm² (to 20 °C)
Protection: IP67

· Maximum 5 electrodes



NCVSI DB PVC

· Electrodes isolated with Poliolefine PE

· Process connection: PVC flange DN25

· Electrical connection: Connection housing. PBT

· Temperature: +70 °C

· Pressure: 5 kg/cm² (to 20 °C)

· Protection: IP67

· Maximum 5 electrodes



NCVSC DB PVC

· Electrode holding: Twisted wire ø3 mm. SS AISI316 (1.4401)

· Process connection: Flange DN25. PVC

· Electrical connection: Connection housing. PBT

· Temperature: +70 °C

Pressure: 5 kg/cm² (to 20 °C)
Protection: IP67

· Maximum 5 electrodes

Accessories NCPS-NCVS		
	Rod SS Ø5 mm without covering (1 m)	
	Rod SS Ø5 mm without covering (1 m)	
	Rod SS Ø5 mm with PTFE covering (1 m)	
	KNT8: Module for RS485 Modbus RTU communication	

Accessories NCVSC	Price
Twisted cable Ø3mm, SS AISI316 with PVC covering (1m)	
KNT8: Module for RS485 Modbus RTU communication	

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- Application Exclusive use in conductive liquids, are used to control level points both independent or combined into small tanks or in deep wells
 - Need to connect to a standard relay for conductive liquids
 - · The number of electrodes is determined by the function of the chosen relay

Image	Reference / Description	Connection	1 E	2 E	3 E
	NS	Cable			
0)	 Conductive electrode for wells and tanks Process connection: hanging by cable (not supplied) Electrical connection: Screwed terminal Temperature: +70 °C Pressure: Atmospherical 			-	
1	NS2	05 (cable 5 m)			
1	Double conductive electrode for tanks	05 (cable 5 m) 10 (cable 10 m)			
[, ,			

Cable no incluído



NSM

· Conductive electrode for wells and tanks · Process connection: hanging by cable

• Cable length: upon request
• Electrical connection: PVC cable, 2x0,5mm²
• Temperature: +70 °C

· Pressure: Atmospherical

N DN50 N DN50



- · Electrode holder for tanks with DIN alimentary fitting
- · Process connection: Fitting DN50 DIN 11851
- · Electrical connection: By terminal screw
- · Temperature: +100°C
- · Pressure: 1kg/cm² (to 20 °C)
- · Protection: IP65
- · Maximum 3 electrodes

Access	sories	Price
	PVC cable, 1 m	

Products related with CONDUCTIVE ELECTRODES		
Level relays for conductive electrodes	100102	
Overvoltage protector in the line of probes: PS-3	141	

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- Application · Exclusive use in conductive liquids, are used to control level points both independent or combined into small tanks or in deep wells.
 - · Amplifier incorporated into the housing.
 - · The control function determines the number of electrodes.

- Common data · Electrodes made of SS AISI316 (1.4401)
 - · The electrodes can be cut to adjust the desired level point.

	Output relay SPDT, 6A/250VAC				
Image	Reference / Description	Connection	1 E	2 E	3 E
	NCPR TB INOX	1/2′′			
	Compact electrodes holder for low height tanks	1′′			
W	 The common electrode is the process connection Process connection: Nipple 1" G. SS AISI316 (1.4401) 		•		•
11/11	 Electrical connection: Connection housing. PBT +70°C. 5 kg/cm². IP67 				
	With 1 electrode: control of 1 level point				
	· With 2 electrodes: control maximum/minimum				
	NCPRI TB INOX	1′′			
	Compact electrodes holder for low height tanks				
H	The common electrode is the process connection Electrode isolated with PTFE				
1	 Process connection: Nipple 1" G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT 				
4	· +70°C. 5 kg/cm². IP67				
	With 1 electrode: control of 1 level point With 2 electrodes: control maximum/minimum				
	NCVR TB INOX	1′′			

1′′

1~1/2

1′′1/2



- Compact electrodes holder for low height tanks
 Process connection: Nipple 1" G. SS AISI316 (1.4401)
 Electrical connection: Connection housing. PBT
 +70°C. 5 kg/cm². IP67

- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum



NCVRI TB INOX

- · Compact electrodes holder for low height tanks
- Electrodes isolated with PTFE
 Process connection: Nipple 1" G. SS AISI316 (1.4401)
- · Electrical connection: Connection housing. PBT
- +70°C. 5 kg/cm2. IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum



NCVR TB PVC

- · Compact electrodes holder for low height tanks
- Process connection: Top screw 1"1/2 G. PVC
 Electrical connection: Connection housing. PBT
- · +70 °C. 5 kg/cm². IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum



NCVRI TB PVC

- Compact electrodes holder for low height tanks
 Electrodes isolated with Polyolefine PE
 Process connection: Top screw 1"1/2 G. PVC
- · Electrical connection: Connection housing. PBT · +70 °C. 5 kg/cm². IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum

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Image	Reference / Description	Connection	1 E	2 E	3 E
	NCVRC TB PVC	1′′1/2			



· Compact electrodes holder for large height tanks

- Electrode holding: Twisted wire ø3 mm. SS AISI316 (1.4401) Process connection: Top screw 1"1/2 G. PVC
- · Electrical connection: Connection housing. PBT
- · +70 °C. 5 kg/cm2. IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum

Accessories NCPR-NCVR	Price
Rod SS Ø5 mm without covering (1 m)	
Rod SS Ø5 mm without covering (1 m)	
Rod SS Ø5 mm with PTFE covering (1 m)	
Increase for voltages 901 or 902	

Accessories NCVRC	Price
Twisted cable Ø3mm, SS AISI316 with PVC covering (1m)	
Increase for voltages 901 or 902	

USEFUL INFORMATION

About the cable

The recommended section of the cable depends on the type of the cable, as indicated in the following section. The longer the cable, the greater the section of the cable.

It is highly recommended that the probe cable does not circulate in parallel with other power or inductive control cables (solenoid valves, motors, etc.). In case they have to be installed in parallel, we recommend that the distance between them be the maximum possible.

There is no problem that the probe cable intersects with the power cables.

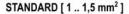






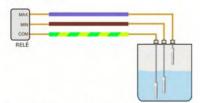
The maximum distance between the probes and the relay is always a function of the factors mentioned so far, so they should be taken into account when planning the installation. It could exceed 1000 meters with optimal operation or it could not do so with a distance less than 3 meters.

Connections according the type of the cable





To be used when there are no special conditions in the installation. It offers zero immunity against electromagnetic disturbances.

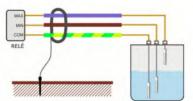


Each of the wires is connected to the corresponding electrode.

SHIELDED [1 .. 1,5 mm2]



It offers limited immunity against electromagnetic disturbances.

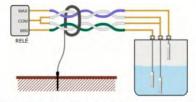


Each of the wires is connected to the corresponding electrode. The mesh is connected to the electrical ground, preferably next to the relay.

TWISTED PAIR WITH SHIELD [0,52 mm²]



It offers greater immunity against electromagnetic disturbances.



One of the wires of each pair is connected to the common electrode. The mesh is connected to the electrical ground, preferably next to the relay.

[If the electrical ground is not reliable, it is better not to connect the shield.]

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Application · Exclusive use in conductive liquids, are used to control level points both independent or combined into small tanks or in deep wells

· Amplifier incorporated into the housing

· The control function determines the number of electrodes

- Common data · Electrodes made of SS AISI316 (1.4401)
 - · The electrodes can be cut to adjust the desired level point.
 - · Output relay SPDT, 6A/250VAC

Image	Reference / Description	Connection	1 E	2 E	3 E
	NCPR DB INOX	DN25			
	Compact electrodes holder for low height tanks The common electrode is the process connection Process connection: Flange DN25. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT +70°C. 5 kg/cm². IP67 With 1 electrode: control of 1 level point With 2 electrodes: control maximum/minimum				



NCPRI DB INOX

DN25

- · Compact electrodes holder for low height tanks
- · The common electrode is the process connection
- · Electrodes isolated with PTFE
- Process connection: Flange DN25. SS AISI316 (1.4401)
- · Electrical connection: Connection housing. PBT
- +70 °C. 5 kg/cm². IP67
- · With 1 electrode: control of 1 level point
- · With 2 electrodes: control maximum/minimum



NCPR CB INOX

2′′

- Compact electrodes holder for tanks with Clamp flange
- The common electrode is the process connection
 Process connection: Clamp flange 2". SS AISI316 (1.4401)
- Electrical connection: Connection housing. PBT
- · +70°C. 5 kg/cm². IP67
- · With 1 electrode: control of 1 level point
- · With 2 electrodes: control maximum/minimum



NCPRI CB INOX

2′′

- · Compact electrodes holder for tanks with Clamp flange
- · The common electrode is the process connection
- Electrodes isolated with PTFE
- · Process connection: Clamp flange 2". SS AISI316 (1.4401)
- · Electrical connection: Connection housing. PBT
- · +70°C. 5 kg/cm2. IP67
- · With 1 electrode: control of 1 level point
- · With 2 electrodes: control maximum/minimum



NCVR DB INOX

DN25

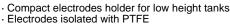
· Compact electrodes holder for low height tanks

- Process connection: Flange DN25. SS AlSi316 (1.4401)
 Electrical connection: Connection housing. PBT
- · +70°C. 5 kg/cm². IP67
- With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum



NCVRI DB INOX

DN25



- Process connection: Flange DN25. SS AISI316 (1.4401)
- · Electrical connection: Connection housing. PBT
- · +70°C. 5 kg/cm². IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum



NCVR CB INOX

2′

· Compact electrodes holder for tanks with Clamp flange

- · Process connection: Clamp flange 2". SS AISI316 (1.4401)
- · Electrical connection: Connection housing. PBT
- +70°C. 5 kg/cm². IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum

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Image	Reference / Description	Connection	1 E	2 E	3 E
	NCVRI CB INOX	2′′			
	 Compact electrodes holder for tanks with Clamp flange Electrodes isolated with PTFE Process connection: Clamp flange 2". SS AISI316 Electrical connection: Connection housing. PBT +70°C. 5 kg/cm². IP67 With 2 electrodes: control of 1 level point With 3 electrodes: control maximum/minimum 				
	NCVR DB PVC	DN25			
	 Compact electrodes holder for low height tanks Process connection: Flange PVC DN25 Electrical connection: Connection housing. PBT 				



· +70 °C. 5 kg/cm². IP67 · With 2 electrodes: control of 1 level point

· With 3 electrodes: control maximum/minimum



NCVRI DB PVC

- Compact electrodes holder for low height tanks
 Electrodes isolated with Polyolefine PE
 Process connection: Flange PVC DN25
 Electrical connection: Connection housing. PBT
 +70 °C. 5 kg/cm². IP67
 With 2 electrodes control of 1 level point.
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum



NCVRC DB PVC

DN25

DN25

- · Compact electrodes holder for large height tanks
- Electrode holding: Twisted wire ø3 mm. SS AISI316 (1.4401)
 Process connection: Flange DN25. PVC
 Electrical connection: Connection housing. PBT

- · +70 °C. 5 kg/cm2. IP67
- · With 2 electrodes: control of 1 level point
- · With 3 electrodes: control maximum/minimum

Accessories NCPR-NCVR		Price
	Rod SS Ø5 mm without covering (1 m)	
	Rod SS Ø5 mm without covering (1 m)	
	Rod SS Ø5 mm with PTFE covering (1 m)	
	Increase for voltages 901 or 902	

Accessories NCVRC		
Twisted cable Ø3mm, SS AlSI316 with PVC covering (1m)		
Increase for voltages 901 or 902		

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Application · Used in basements, offices, laundries, service galleries, clean rooms, etc.

Image	Reference / Description	Voltage	Cable (m)	Price
	NP		5	



- · Sensor for floods detection
- · Connected to a level control relay
- · Process connection: By screws.
- · Electrical connection: PVC cable
- Temperature: +70°C
- · Pressure: Atmospherical
- · Protection: IP68

NPS



- · Sensor for floods detection
- · Connected to a level control relay
- Compact and robust design
 Process connection: By holding clamp
- · Electrical connection: PVC cable
- · Temperature: +70°C
- · Pressure: Atmospherical
- Protection: IP68

NPR



- · Sensor for floods detection
- Process connection: By holding clamp
 Electrical connection: PVC cable
 Output: relay SPDT 6A/250VAC

- Temperature: +70°C
- Pressure: Atmospherical Protection: IP68

724	5	
724	10	
724	15	
624	5	
624	10	
624	15	

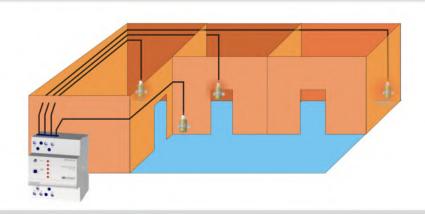
Products related with ALARM AND VISUALIZATION	
Relays for flood detection sensors	102

USEFUL INFORMATION

Connection of various sensors

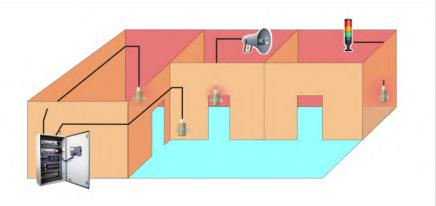
The SNNA and SNNY flood control relays accept up to 5 sensors simultaneously.

The detection of any sensor will activate the LED related to the input channel and the output relay in the case of SNNA.

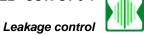


Connection to other systems

NPR sensors can be connected to any device that accepts its type of output, being able to work independently or centralized from a control panel.







- Application It is used to control the leakage in tanks of double chamber
 - · Built-in amplifier in the head for with relay output
 - · It requires the use of the sensor NS2R or IMNCR 70

Image	Reference / Description	Cable (m)	Price
	NCAR AB PVC	-	
E	 Detection of liquids leakage Detection of cable breaking Detection time: 500 ms Warning mode: fix or flashing Output relay: 6A 250V 	-	



NS2R

- Resistive sensor for leak detection Connection via M12 female connector

2	
5	
10	



IMNCR 70 PVC

- \cdot Level switch for leak detection
- · Connection via female M12 connector

2	
5	
10	





Time of flight sensor



- Application · Non-contact liquid level detection
 - · Ideal for foam detection
 - · Reduced dimensions

Reference / Description Price Image **STV 600**



- Flight time sensor
 Scope: 0 .. 60 mm (white 90%)
 Output: 2 x Push-Pull, LO function
 Food: 19.2 .. 28.8 Vcc
 Connection: 0.2 m cable + M12 4V connector



Application · They are used to obtain a continuous reading of liquid level. · Used in control of pumps, compressors, water systems, hydraulics, pneumatics, machinery, etc. · They must be assembled in the bottom of the tank to withstand the maximum pressure of the liquid. Common data · Ceramic sensor of high precision and long-term stability · Supply voltage: 10..35 VDC

	Cappy College 120			
Image	Reference / Description	Price		
	TPSP 22 C			
7	 General application. Compact size Process connection: Thread 1/4", 1/2" BSP. SS 316L (1.4404) Electrical connection: Connector DIN43650 Ranges: 0/10/250 bar Output: 4-20 mA Temperature: 0+80 °C Protection: IP65 			
	TPSP 22 M			
	 General application. Compact size Process connection: Thread 1/2" BSP. SS 316L (1.4404) Electrical connection: Connector M12 Ranges: 0/10/250 bar Output: 4-20 mA Temperature: 0+80 °C Protection: IP65 			
	TPSP 22 P			
1	 General application. Compact size Process connection: Thread 1/2" BSP. SS 316L (1.4404) 			

- · Electrical connection: Cable, 2 meters
- · Ranges: 0/1..0/250 bar
- · Output: 4-20
- Temperature: 0..+80 °C
- · Protection: IP65

TPSP 23 C

- · General application. Compact size
- Process connection: Thread 1/2" BSP. SS 316L (1.4404)
- · Electrical connection: Connector DIN43650
- · Ranges: 0/1..0/250 bar
- · Output: 4-20 mA or 0-10 VDC
- · Temperature: 0..+80 °C
- · Protection: IP65



TPSP 23 M

- · General application. Compact size
- · Process connection: Thread 1/2" BSP. SS 316L (1.4404)
- · Electrical connection: Connector M12
- Ranges: 0/1..0/250 bar
- · Output: 4-20 mA o 0-10 VDC
- · Temperature: 0..+80 °C
- · Protection: IP65



TPSP 23 P

- General application. Compact size
 Process connection: Thread 1/2" BSP. SS 316L (1.4404)
 Electrical connection: Cable, 2 meters
 Ranges: 0/1..0/250 bar
 Output: 4-20 mA o 0-10 VDC
 Temperature: 0..+80 °C
 Protection VDC

 Temperature: 0..+80 °C

- Protection: IP65

TPSP 32 C



- · Suitable for low pressures
- Outcropping membrane
- · Process connection: Thread 1"1/4 BSP. SS AISI316 (1.4401)
- · Electrical connection: Connector DIN43650
- · Ranges: 0/50..0/200 mBar
- · Output: 4-20 mA or 0..10 VDC
- · Temperature: -5..+90 °C
- · Protection: IP65

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Image	Reference / Description	Price
	TPSP 34 C	
	Continuous measurement in liquids, even with impurities Outcropping membrane Process connection: Thread 1" BSP. SS AISI316 (1.4401) Electrical connection: Connector DIN 43650 Ranges: 0/0,250/100 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP65	
	TPSP 34 M	
	Continuous measurement in liquids, even with impurities Outcropping membrane Process connection: Thread 1" BSP. SS AISI316 (1.4401) Electrical connection: Connector M12 Ranges: 0/0,250/100 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 ℃ Protection: IP65	
	TPSP 34 P	
	Continuous measurement in liquids, even with impurities Outcropping membrane Process connection: Thread 1" BSP. SS AISI316 (1.4401) Electrical connection: Cable, 2 meters Ranges: 0/0,250/100 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 ℃ Protection: IP65	
	TPSP 37 C	
3	Continuous measurement of pressure in aggressive liquids Outcropping membrane Process connection: Thread 1"1/4 BSP. PTFE Electrical connection: Connector DIN 43650 Ranges: 0/0,250/10 bar Output: 4-20 mA Temperature: -5+70 ℃ Protection: IP65	
	TPSP 39 C	
	 Continuous measurement of pressure in aggressive liquids Outcropping membrane Process connection: Thread 1"1/4. PP Electrical connection: Connector DIN 43650 Ranges:0/0,250/10 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+55 °C Protection: IP65 	
	TPSP 39 M	
	 Continuous measurement of pressure in aggressive liquids Outcropping membrane Process connection: Thread 1"1/4. PP Electrical connection: Connector M12 Ranges:0/0,250/10 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+55 °C Protection: IP65 	
1	TPSP 39 P	
	 Continuous measurement of pressure in aggressive liquids Outcropping membrane Process connection: Thread 1"1/4. PP Electrical connection: Cable, 2 meters Ranges:0/0,250/10 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+55 °C Protection: IP65 	

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Image	Reference / Description	Price
	TPSP 41 C	
	General application Process connection: Thread 1/4", 1/2" BSP or NPT. SS AISI316 (1.4401) Electrical connection: Connector DIN43650 Ranges: 0/0,250/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: 0+90 °C Protection: IP65	
	TPSP 41 M	
	 General application Process connection: Thread 1/4", 1/2" BSP or NPT. SS AISI316 (1.4401) Electrical connection: Connector M12 Ranges: 0/0,250/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: 0+90 °C Protection: IP65 	
	TPSP 41 P	
	General application Process connection: Thread 1/4", 1/2" BSP or NPT. SS AISI316 (1.4401) Electrical connection: Cable, 2 meters Ranges: 0/0,250/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: 0+90 °C Protection: IP65	
	TPSP 41 FG C	
	General application Process connection: Thread 1/2" BSP. SS AISI316 (1.4401) Wide detection surface (Ø 9 mm) Electrical connection: Connector DIN43650 Ranges: 0/0,250/60 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: 0+90 °C Protection: IP65	
	TPSP 41 FG M	
	 Applicable in seawater, osmosis processes, etc. Process connection: Thread 1/2" BSP. SS AISI 904-L (1.4539) Electrical connection: Connector M12 Wide detection surface (Ø9 mm) Ranges: 0/0,25.0/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP65 	
	TPSP 41 FG P	
	 Applicable in seawater, osmosis processes, etc. Process connection: Thread 1/2" BSP. SS AISI 904-L (1.4539) Wide detection surface (Ø 9 mm) Electrical connection: Connector M12 Ranges: 0/0,250/60 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP65 	
	TPSP 41 904-L C	
	 Applicable in seawater, osmosis processes, etc. Process connection: Thread 1/2" BSP. SS AISI 904-L (1.4539) Electrical connection: Connector DIN43650 Ranges: 0/0,250/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP65 	

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Image	Reference / Description	Price
	TPSP 41 904-L M	
	 Applicable in seawater, osmosis processes, etc. Process connection: Thread 1/2" BSP. SS AISI 904-L (1.4539) Electrical connection: Connector M12 Ranges: 0/0,250/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP65 	
	TPSP 41 904-L P	
	 Applicable in seawater, osmosis processes, etc. Process connection: Thread 1/2" BSP. SS AISI 904-L (1.4539) Electrical connection: Cable, 2 meters Ranges: 0/0,250/250 bar. Option 125 mBar (BP) Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP65 	
	TPSP 42 P	
U	For the control in pipe branches, distribution boxes, etc. Suitable in high humidity environments or outdoor Process connection: Thread 1/2" BSP. SS AISI316 (1.4401) Electrical connection: Cable with double sealing, atm tube and twisted prop Ranges: 0/0,250/250 bar Output: 4-20 mA or 010 VDC Temperature: -5+90 ℃ Protection: IP68	
	TPSP 54 C	
	• For the control in pipe branches, distribution boxes, etc. • Suitable in high humidity environments or outdoor • Process connection: Thread 1/2" BSP. SS AISI316 (1.4401) • Electrical connection: Cable with double sealing, atm tube and twisted prop • Ranges: 0/0,250/250 bar • Output: 4-20 mA or 010 VDC • Temperature: -5+90 °C • Protection: IP68	
	TPSP 54 M	
Ü	 For the control in pipe branches, distribution boxes, etc. Suitable in high humidity environments or outdoor Process connection: Thread 1/2" BSP. SS AISI316 (1.4401) Electrical connection: Cable with double sealing, atm tube and twisted prop Ranges: 0/0,250/250 bar Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP68 	
	TPSP 54 P	
	 For the control in pipe branches, distribution boxes, etc. Suitable in high humidity environments or outdoor Process connection: Thread 1/2" BSP. SS AlSI316 (1.4401) Electrical connection: Cable with double sealing, atm tube and twisted prop Ranges: 0/0,250/250 bar Output: 4-20 mA or 010 VDC Temperature: -5+90 °C Protection: IP68 	

Accessories TPSP		Price
	VTP: Digital meter 4-20 mA	
	CS5: cable special for pressure sensors TPSP xx P, 1 m	
	BP: Option "Low Pressure", range 0/125 mBar	

Products related with PRESSURE SENSORS	
Current relays for 4-20 mA loop: SAJ, SAJA/B, SAKA	124
Current relays for DC: SAB, PABA/B, DABA/B, SABA/B, PAFA, DAFA, SAFA	116117
Board instrument of digital display: IPD	142
Protector against atmospheric discharges for 4-20mA loop: PS-4	140

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Application · They are used to obtain a continuous reading of the liquid level.

· Used in pump control, level measurement, wells, etc.

· They are installed in the upper part of the container, held by the cable itself, until reaching the lowest point of measurement.

- Common data · Ceramic sensor of high precision and long-term stability
 - · Supply voltage: 10..35 VDC

Image	Reference / Description	Price
	TPSM 40	
	· Suitable for clean water or liquid without impurities	

- General application and wells
 Manufactured in SS AISI316 (1.4401). ø23 mm

- Process connection: Hanging by the cable
 Electrical connection: Cable, 10 meters
 Ranges: 0/0,25..0/40 bar. Optional 125 mBar (BP)



TPSM 41

- Suitable for clean water or liquid without impurities. Special for wells
 Manufactured in SS AISI316 (1.4401). ø18 mm
- Process connection: Hanging by the cable
 Electrical connection: Cable, 10 meters
- Ranges: 0/0,25..0/20 bar



TPSM 51

- · Specifications for low pressure
- Manufactured in SS AISI316L (1.4404). ø40 mm
 Process connection: 1/2" BSP
- Electrical connection: Cable, 3 meters
- · Ranges: 0/50..0/200 mbar
- Temperature: -5..+70 °C



TPSM 54

- · Suitable for diesel and liquids without impurities
- Manufactured in SS AISI316 (1.4401). ø23 mm
- Process connection: Thread ½" BSP
- · Electrical connection: Cable, 10 meters
- Ranges: 0/0,25..0/40 bar



TPSM 59

- Suitable for aggressive liquids and chemicals
 Manufactured in PP. Ø23 mm
 Process connection: Thread 1/4" BSP

- · Electrical conneciona: Cbale, 10 meters</br>
- Ranges: 0/0,25..0/10 bar



TPSM 64

- · Suitable for wastewater or liquids with non solid impurities
- Outcropping membrane
 Manufactured in SS AISI316 (1.4401). Ø23 mm
- Process connection: Thread 1/2" BSP
- · Ranges: 0/0,25..0/40 bar



TPSM 65

- · Suitable for wastewater or liquids with solid impurities
- · Outcropping membrane
- · Manufactured in SS AISI316 (1.4401). ø23 mm
- Process connection: Hanging by the cable
 Electrical connection: Cable, 10 meters
- Ranges: 0/0,25..0/40 bar. Optional 125 mBar (BP)

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Image	Reference / Description		Price
	TPSM 66		
	 Suitable for wastewater or viscous liquids Outcropping membrane Manufactured in SS AISI316 (1.4401). Ø23 mm Process connection: Hanging by the cable Electrical connection: Cable, 10 meters Ranges: 0/0,250/40 bar 		
	TPSM 76		
1	 Suitable for wastewater or viscous liquids Manufactured in PP. ø23 mm 	_	



Process connection: Hanging by the cable Electrical connection: Cable, 10 meters · Ranges: 0/0,25..0/10 bar

- **TPSM 77**
- Suitable for wastewater or marine waters
 Manufactured in PP. ø23 mm
 Process connection: Thread 1/2"BSP
 Electrical connection: Cable, 10 meters
 Ranges: 0/0,25..0/10 bar



TPSM 79

- Suitable for wastewater or marine waters
 Manufactured in PP. ø23 mm

- Process connection: Hanging by the cable
 Electrical connection: Cable, 10 meters
- · Ranges: 0/0,25..0/10 bar. Optional 125 mBar (BP)



TPSM TB

- Adapter for installing a pressure sensor with top screw and connection housing
 Process connection: screw cap. Any measure from 1/2"G. SS AISI316 (1.4401) or PVC
- · Electrical connection: Connection housing. PBT
- · Protection: IP67

Accessories TPSM	Price
CS7: cable special for pressure sensors TPSM, 1 m	
PAC: Holding clamp for the cable	

Products related with PRESSURE SENSORS	Page		
Current relays for 4-20 mA loop: SAJ, SAJA/B, SAKA	124		
Current relays for DC: SAB, PABA/B, DABA/B, SABA/B, PAFA, DAFA, SAFA			
Board instrument of digital display: IPD	142		
Protector against atmospheric discharges for 4-20mA loop: PS-4	140		

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Application The ultrasound sensor emits impulses towards the product to be controlled, which reflects them towards the sensor. The measurement of the time that elapses from the emission of the signals to their reception translates into the height of the product level inside the tank.

- Common data · Adjustment by teach button · Output: PNP NO/NC + 4-20 mA

 - · Supply: 10..30 VDC
 - · Operating temperature: -20..+70°C

Image	Reference / Description	Price
	SNU 18P	



Dimensions: M18, L = 91.6 mmNominal range: 2200 mm

· Dead zone: 200 mm

· Resolution: <= 3 mm

SNU 30P



- Dimensions: M90, L = 99 mm
 Nominal range: 6000 mm
 Dead zone: 350 mm
 Resolution: 0.1% full scale

Products related with ULTRASONIC SENSORS Page					
	Current relay for 4-20mA loop: SAJ, SAJA/B, SAKA	124			
	Current relays for DC: SAB, PABA/B, DABA/B, SABA/B, PAFA, DAFA, SAFA	124			
	Board instrument of digital display: IPD	142			



- Application They are used for the detection of liquids of different density and viscosity.
 - They can detect plastic deposits from the outside.
 - · They can detect without being in contact with the liquid.
 - · They must be connected to any of the capacitive relays PNAS/T DNAS/T.

- Common data · Sensitivity adjustable via multiturn potentiometer.
 - · Led indicative of detection of the product.
 - Temperature: -15..+70°C
 Pressure: 10 Kg/cm²

 - · Protection: IP65

Image	Reference / Description	Price
	SCS 35	



- · Manufactured in PVC
- · Process connection: Hanging by cable (5 m)
- · Electrical connection: Cable



SCR 35

- · Manufactured in PVC
- · Process connection: Thread 1"1/4 G
- · Electrical connection: Cable



SCRR 35

- Manufactured in PVC
- · Process connection: Thread 1"1/2 G
- · Electrical connection: Cable



SCRR 35 T

- · Manufactured in PTFE (nonsticky)
- · Usable in pharmaceutical or food industry
- · Process connection: Thread 1"1/2 G
- · Electrical connection: Cable



SCRR 35 43650

- · Manufactured in PVC
- Process connection: Thread 1"1/2 G
 Electrical connection: DIN43650 connector



SCRR 35 T 43650

- · Manufactured in PTFE (nonsticky)
- Usable in pharmaceutical or food industry
- · Process connection: Thread 1"1/2 G
- · Electrical connection: DIN43650 connector

Products related with CAPACITIVE SENSORS	Page
Amplifiers relays for capacitive sensors: PNAS/T, DNAS/T	104

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- Application They are used for the detection of solid materials in grain, powder, aggregates, chemical products, etc.
 - · They can detect plastic deposits from the outside.
 - · They can detect without being in contact with the liquid.
 - · Direct connection to an auxiliary relay, PLC, etc.

- Common data · Sensitivity adjustable via multiturn potentiometer.
 - · Led indicative of detection of the product.
 - · Supply voltage: AC or DC, according to model
 - · Output: NO, NC or SCR, according to model
 - · Temperature: -25..+80°C
 - · Protection: IP67

Image	Reference / Description	Voltage	Output	Mode	Detection	Model	Price
	SCM 18P A	20250 VAC	NO+NC	NPN	Flush	SCM 18P BN 1A	
P	Made of Polyester Threaded body M18 Electrical connection: Cable 2 m	20250 VAC	NO+NC	NPN	No flush	SCM 18P BN 2A	
		20250 VAC	NO+NC	PNP	Flush	SCM 18P BP 1A	
40	· Detection distance: 8 or 12 mm, depending on model	20250 VAC	NO+NC	PNP	No flush	SCM 18P BP 2A	
4		1040 VDC	NO	SRC	Flush	SCM 18P A0 1A	
		1040 VDC	NO	SRC	No flush	SCM 18P A0 2A	
		1040 VDC	NC	SRC	Flush	SCM 18P C0 1A	
		1040 VDC	NC	SRC	No flush	SCM 18P C0 2A	
	COM 40D F	20250 VAC	NO+NC	NPN	Flush	SCM 18P BN 1E	
	SCM 18P E						
	Made of Polyester Threaded body M18 Electrical connection: M12 connector Detection distance: 8 or 12 mm, depending on model	20250 VAC	NO+NC	NPN	No flush	SCM 18P BN 2E	
		20250 VAC	NO+NC	PNP	Flush	SCM 18P BP 1E	
100		20250 VAC	NO+NC	PNP	No flush	SCM 18P BP 2E	
		1040 VDC	NO	SRC	Flush	SCM 18P A0 1E	
		1040 VDC	NO	SRC	No flush	SCM 18P A0 2E	
		1040 VDC	NC	SRC	Flush	SCM 18P C0 1E	
		1040 VDC	NC	SRC	No flush	SCM 18P C0 2E	
	SCM 30P A	20250 VAC	NO+NC	NPN	Flush	SCM 30P BN 1A	
20	· Made of Polyester	20250 VAC	NO+NC	NPN	No flush	SCM 30P BN 2A	
	Threaded body M18 Electrical connection: Cable 2 m	20250 VAC	NO+NC	PNP	Flush	SCM 30P BP 1A	
	· Detection distance: 16 or 25 mm, depending on	20250 VAC	NO+NC	PNP	No flush	SCM 30P BP 2A	
7	model	20250 VAC	NO/NC	SRC	Flush	SCM 30P 00 1A	
4		20250 VAC	NO/NC	SRC	No flush	SCM 30P 00 2A	
							l



SCM 30P ... E

- Made of Polyester
 Threaded body M18
 Electrical connection: M12 connector
 Detection distance: 16 or 25 mm, depending on model

20250 VAC	NO+NC	NPN	Flush	SCM 30P BN 1E	
20250 VAC	0250 VAC NO+NC NPN No flush SCM 30I		SCM 30P BN 2E		
20250 VAC	NO+NC	PNP	Flush	SCM 30P BP 1E	
20250 VAC	NO+NC	PNP	No flush	SCM 30P BP 2E	
20250 VAC	NO/NC	SRC	Flush	SCM 30P 00 1E	
20250 VAC	NO/NC	SRC	No flush	SCM 30P 00 2E	

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Application • They are used in open tanks to control liquids at atmospheric pressure.

The float contains no magnetic components making it ideal for recovery of oil tanks, drilling, etc.. ss well as those in which the temperature is high (Stainless Steel models.)

Common data · The length of the sensor is limited by the characteristics of each float.

	Price
INMS 200	
Process connection: Threaded M12 400	
• Microruptor output SPDT 10A/250V • Float: SS AISI316 (1.4401), ø95 mm	
Length: 200, 400 or 600 mm -20+70°C (box), +150°C (float). IP66	•



<= 2000 **INMB**

- Process connection: Screws, 2 holes ø5,3 mm
 Output: 1 Microruptor SPST NO 10A/230V 1 Microruptor SPST NC 10A/230V
 Float: SS AISI316 (1.4401), ø110
 Length: 2000 mm, maximum
 -20..+70°C (housing), +200°C (float). IP66



INMB EX

- Process connection: Screws, 4 holes ø6 mm
 Output: 1 Microruptor SPST NO 10A/380V 1 Microruptor SPST NC 10A/380V
 Float: SS AISI316 (1.4401), ø110 mm

- Length: 2000 mm, maximum
 -10...+80°C (housing), +200°C (float). IP66
- · ATEX EExd IIC T6



INMG

Process connection: Top screw 1" G
Output: Reed contact SPDT 1A/230V, 60W/VA
Float: PVC, Ø29x85 mm. e>0,7 g/cm³
Length: 210..600 mm
+60°C. IP65

<= 2000

210 .. 6000

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Penumatic switches

- Application
 For liquid level control and other fluid mixtures.
 For the control of pumps or signaling of different levels.
 The pressure inside the tube acts on a switch placed in the housing.
 - · Can signal pressures from 20 mm water column.

Image	Reference / Description	Contacts	Housing	Membrane	Price
	INPN - Housing: Aluminum - Pressure chamber: Polyester with fiberglass - Connection tube: Threaded 1"G (not supplied) - Models with 1 or 2 contacts - Temperature: +60°C - Pressure: Atmospheric - Protection: IP53	1	Aluminium	Nitrile	
		1	Aluminium	Viton	
		1	Plastic	Viton	
		2	Aluminium	Nitrile	
		2	Aluminium	Viton	
		2	Plastic	Viton	







Application · To be installed on the side of storage tanks, process tanks, etc.

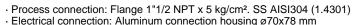
They are used for high or low level, control low-level staging, etc. Commonly used on boats because of their robustness

Image Reference / Description Price **INML 10 BC**



- · Process connection: Flange 1"1/2 NPT x 5 kg/cm². SS AISI304 (1.4301)
- Electrical connection: Aluminum connection housing ø70x78 mm
- · Output: Microswitch SPDT 5A / 250 VAC
- -10..+100 °C. 15 kg/cm². 0,65 g/cm³. IP65

INML 10 BCEX



- · Output: Microswitch SPDT 5A / 250 VAC
- · -10..+100 °C. 15 kg/cm². 0,65 g/cm³. IP65 · ATEX II 2 G EEx d IIB T6

INML 10 BQ



- Process connection: Flange 1"1/2 NPT x 5 kg/cm². SS AISI304 (1.4301)
 Electrical connection: Aluminum connection housing Ø70x78 mm
 Output: Microswitch SPDT 5A / 250 VAC

- · -10..+100 °C. 15 kg/cm². 0,65 g/cm³. IP65
- Marine certificate

INML 20 BC



- · Process connection: Flange 1"1/2 NPT x 5 kg/cm². SS AISI304 (1.4301)
- · Electrical connection: Aluminum connection housing ø70x78 mm
- Output: Reed 1A / 30W / 220 VAC / 220 VDC
- · -25..+200 °C. 15 kg/cm². 0,65 g/cm³. IP65

INML 10 TR



- · Process connection: Thread 1"1/2 NPT. SS AISI304 (1.4301)
- · Electrical connection: Connection housing. Aluminum. ø70x78 mm
- · Output: Microswitch SPDT 5A / 250VCA
- -10..+100 °C. 15 kg/cm². 0,65 g/cm³. IP65

INML 20 TR



- · Process connection: Thread 1"1/2 NPT. SS AISI304 (1.4301)
- Electrical connection: Connection housing. Aluminum. ø70x78 mm Output: Microswitch SPDT 5A / 250VCA
- · -25..+200 °C. 15 kg/cm². 0,65 g/cm³. IP65







Application • Suitable for monitoring flows in small and medium circulation systems of non-aggressive liquids.

Image	Reference / Description	Connection	Price
	SF 140		
	Flow switch by mechanical driving	1/2′′	
	Process connection: Thread 3/8" - 1/2" - 3/4"- 1" G Electrical connection: DIN 43650 connector	3/4′′	
alle .	· -10+110 °C. 25 bar. IP65	1′′	



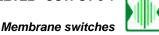
SF 145

Flow switch by mechanical driving
Process connection: Thread 1" G
Electrical connection: Housing
Relay output, SPDT, 15A 250V
-40..+85 °C. 25 bar.

1'' (Mod. 1K)	
1'' (Mod. 1RE)	
1'' (Mod. 2E)	







Application · Level control for solids with easy flow at atmospheric pressure.

The membrane must be exposed to the material to be controlled. When the material entering the silo piles and cover the membrane, the pressure forces it to operate the switch placed inside the box.

- Common data · Membranes optional in Neoprene, Viton, SS
 - · Density of the product: 0,3..2,5 t/m³

Image	Reference / Description	Membrane	Price	
	CNM 10	Nitrile		
250	- Small dimensions	Viton		
	Manufactured in plastic Flushing membrane. ø102 mm. Nitrílic			
	· Output: Micro-switch SPDT 5A / 250V			



CNM 20

· General application

· Protection: IP50

· Manufactured in reinforced plastic

Flushing membrane. ø155 mm. Nitrílic
Output: Micro-switch SPDT 10A / 250V

· Operating pressure: >60 g

Operating pressure: >8 g
 Temperature: -10..+60 °C

Temperature: -20..+80 °C
Protection: IP53

Nitrile Viton Stainless steel

Stainless steel

Nitrile

CNM 20 EX

· General application

- · Manufactured in reinforced plastic
- Flushing membrane. ø155 mm. Nitrílic
 Output: Micro-switch SPDT 10A / 250V
- Operating pressure: >60 g
- Temperature: -20..+80 °C Protection: IP53
- · ATEX Group II, Category 1/2 D (dust), Zones 20, 21 and 22

Nitrile Viton Stainless steel



CNM 30

- · Anticondensation design
- · Manufactured in reinforced plastic
- Outcropping membrane. ø155 mm. Nitrílic
 Output: Micro-switch SPDT 10A / 250V
- · Operating pressure: >60 g
- · Temperature: -20..+80 °C
- Protection: IP53

CNM 30 EX · Anticondensation design · Manufactured in reinforced plastic

- Outcropping membrane. ø155 mm. Nitrílic
 Output: Micro-switch SPDT 10A / 250V · Operating pressure: >60 g · Temperature: -20..+80 °C

 - · Protection: IP53
 - · ATEX Group II, Category 1/2 D (dust), Zones 20, 21 and 22

CNM 40

- Large detection surfaceManufactured in reinforced plastic
- Flushing membrane. Ø214 mm. Nitrílic
 Output: Micro-switch SPDT 15A / 250V
- Operating pressure: 60..200 g Temperature: -20..+80 °C
- · Protection: IP53

Nitrile	
Viton	
Stainless steel	



Rotary paddle switches



- Application · Level control for solids in bulk.
 - · When the product reaches the paddle, it finds resistance to its rotation and a motor-reducer rotates on its axis by activating two micro-switches: one of them stops the engine and the other one operates on the mechanisms of control, stopping or starting the engine, signalization systems, conveyors,

When the paddles are free of product, motor-reducer connects again inversing the control signal.

- Common data · Synchronous moto-reducer of slow speed
 - · Delay on disconnection: 2 s
 - · Types of paddles: Different depending on the application
 - · Material of paddles: SS AISI303

Image	Reference / Description	Voltage	Price
	CNPR-N	24 VDC	
	· For products in bulk with a maximum grain of 15 mm. Small silos	24 VAC	
5.0	Manufactured in reinforced ABS Process connection: Thread 1"1/4 G	230 VAC	
	Paddle "L", 100x110 mm (other on request) Output: Micro-switch SPDT 2 A/250 VAC		
	· Temperature: -20+60 °C		
	· Pressure: 0,5 bar		



CNPR-D

· Protection: IP65

- For products in bulk with several grain sizes. All kind of silos Process connection: Thread 1"1/4G (oher on request)
 Electrical connection: Housing. Aluminium
 Paddle "L", 130x130 mm (oher on request)
 Output: Micro-switch SPDT 1mA/4V..2A/250 VAC
 Temperature: -25..+80 °C

- · Pressure: 5 bar
- · Protection: IP66

24 VDC	
24 VAC	
230 VAC	



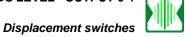
CNPR-DEX

- · For products in bulk with several grain sizes. All kind of silos
- · Process connection: Flange/Thread 1"1/4"G. SS AISI303 (1.4305)
- · Electrical connection: Housing. Aluminium
- Different paddles according to the application
 Output: Micro-switch SPDT 1mA/4V..2A/250 VAC
- · Temperature: -25..+80 °C
- · Pressure: 5 bar
- · Protection: IP66
- · ATEX Group II, Category 1/2 D (dust)

230 VAC	
24 VAC	
24 VDC	







- Application · Suitable for high level control in products producing slope during loading of the silo.
 - · They also control flows and blockages in pipes, conveyors endless, chain conveyors, etc.
 - The sensor probe should be exposed to the material to be detected. The thrust exerted by the material requires the sensor to operate a switch that must be connected to the control systems to make the on/off of signaling and transport mechanisms.

- Common data · Electrical connection: Housing. Aluminium
 - · Output: Micro-switch SPDT 10 A/250 VAC
 - Temperature: -20..+100 °C
 Density: >0,150 kg/m³

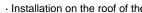
· Length: 300..2000 mm

- · Protection: IP65

Image	Reference / Description	Price
	CNP-C	
	- Installation on the roof of the silo	



CNP-C EX



Installation on the roof of the silo
Process connection: Flange Ø142 mm
ATEX Group II, Category 1/2 D (dust)
Length: 300..2000 mm

· Process connection: Flange ø142 mm

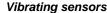


CNP-H

- · Installation on concrete floor
- · Process connection: Flange ◊140 mm
- · Length: 300..2000 mm

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Price



Application · Suitable for level detection in solid, granular or powder.

- Common data · Made with SS AISI304
 - Output: Relay SPDT 5A / 250VAC
 - Adjustable sensitivity
 - · Temperature (housing): -20..+60°C
 - · Pressure: 10 bar · Protection: IP66

Image	Reference / Description
	CNV 100
	 For products of medium density (> 50 g/l) and with low humidity Process connection: Top screw 1"G Electrical connection: Connector DIN 43650 Power supply: 24 VAC/DC Temperature: -20+70 °C



CNV 110

- For products of medium density (> 50 g/l)
 Process connection : Top screw 1"G
 Electrical connection: Connection housing. Aluminium
 Power supply: 20..250 VAC/DC
 Temperature: -20..+70 °C



CNV 110 EX

- · For products of medium density (> 50 g/l) · Process connection : Top screw 1" G
- · Electrical connection: Connection housing. Aluminium
- · Power supply: 20..250 VAC/DC · Temperature: -20..+70 °C
- · ATEX Group II, Category 1/2 D (dust), Zones 20, 21 and 22



CNV 120

- · For extremely lightweight products
- · Process connection: Top screw 1"1/2 G. NPT
- · Electrical connection: Connection housing. Aluminum
- · Power supply: 20..250 VAC/DC
- · Temperature: -20..+780 °C



CNV 120 EX

- · For extremely lightweight products
- Process connection: Top screw 1"1/2 G. NPT
 Electrical connection: Connection housing. Aluminum
- Power supply: 20..250 VAC/DC
 Temperature: -20..+780 °C
- · ATEX Group II, Category 1/2 D (dust), Zones 20, 21 and 22



CNV 150

- · For extremely lightweight products
- · Extending up to 20 m
- · Process connection: Top screw 1"1/2G. NPT
- · Electrical connection: Connection housing. Aluminum
- Power supply: 20..250 VAC/DC
 Temperature: -20..+80 °C



CNV 150 EX

- · For extremely lightweight products
- · Extending up to 20 m
- · Process connection: Top screw 1"1/2 G. NPT
- · Electrical connection: Connection housing. Aluminum
- Power supply: 20..250 VAC/DC
 Temperature: -20..+80 °C
- · ATEX Group II, Category 1/2 D (dust), Zones 20, 21 and 22

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1/8′′

1/4′′

1/4"

Application · They are used to control a maximum or minimum level.

- Common data · Made in SS AISI316 (1.4401)
 - · Electrical connection: Silicone cable, 1 meter
 - · Temperature: -40..+125 °C
 - · Protection: IP65
 - · The length of the guide tube is fixed.
 - · They have a single contact for maneuver.
 - · By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Connection	1 C
-	IMN 40 INOX	1/8′′	
	 Process connection: Nipple. 1/8" G. SS AISI316 (14401) Length: 40 mm Float: Cylindrical ø29x32 mm 		



Density: 0,8 g/cm³
Pressure: 20 kg/cm²



IMN 40 A INOX

- For installation at the tank side
 Process connection: Nipple. 1/8" G. SS AISI316 (14401)

- Length: 40 mm
 Float: Cylindrical ø29x32 mm
 Contacts: (NO) 40W/VA-2A/230VAC/DC

· Contacts: (NO) 40W/VA-2A/230VAC/DC

· Density: 0,8 g/cm³ Pressure: 20 kg/cm²



IMN 70 INOX

- · Process connection: Nipple. 1/4" G. SS AISI316 (1.4401)
- · Length: 70 mm
- · Float: Spherical ø52 mm
- · Contacts: (NO) 120W/VA-3A/250VCA/CC
- · Density: 0,7 g/cm³
- · Pressure: 30 kg/cm²



IMN 70 A INOX

- · For installation in the tank side
- · Process connection: Nipple. 1/4" G. SS AISI316 (1.4401)
- Length: 70 mm
- · Float: Spherical ø52 mm
- Contacts: (NO) 120W/VA-3A/250VAC/DC
 Density: 0,7 g/cm³
 Pressure: 30 kg/cm²

Accessories		Price
	Silicone cable, 1 m	
	Screw nut SS 1/8' 'G	
	Screw nut SS 1/4' 'G	

Products related with MAGNETIC SWITCHES		
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS		
Timer anti turbulence: PSIA/DSIA	112	
Relays for control of pumps	128	

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Application · They are used to control a maximum or minimum level.

- Common data · The length of the guide tube is fixed.
 - · They have a single contact for maneuver.
 - · By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Cable (m)	1 C
	IMN 70 LATON	1	
	Process connection: Nipple. 1/4" G. Brass Electrical connection: PVC cable, 1 meter Length: 70 mm Float: Cylindrical ø29x50 mm Contacts: (NO) 40W/VA-2A/230VAC/DC		



Pro

· Protection: IP65 **IMNC 70 PVC**

Density: 0,6 g/cm³ · Temperature: -30..+60 °C

Temperature: -30..+60 °C

Tomporatar	٠.	•
Protection:	IP6	5

Process connection: hanging by cable	2	
Electrical connection: PVC cable, different lengths Length: 1350 mm	5	
· Float: Cylindrical ø29x50 mm, PP	10	
· Contacts: (NO) 40W/VA-2A/230VAC/DC · Density: 0,6 g/cm ³		
. Temperature: -30 ±60 °C		

Accessories	
PVC cable, 1 m	

oducts related with MAGNETIC SWITCHES		Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

MAGNETIC SWITCHES: USEFUL INFORMATION

Application area

Magnetic Level Switches are used to visualize and control the level of liquids in tanks, tanks, boilers, etc. There are innumerable and diverse applications where a Magnetic Level Switch is required, which are manufactured under the exclusive specifications of each

Liquids should not contain suspended solids, nor present a tendency to crystallization. The density and viscosity of the liquid are factors to take into account to favor the correct displacement of the float along the tube.

It is essential to ensure that the materials with which the instrument is constructed have sufficient chemical resistance to withstand the liquid to be controlled, as well as that the working pressure and temperature conditions cannot cause mechanical deformations that

Important: These instruments should not be installed in the vicinity of strong magnetic fields since they could prevent their proper functioning.

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Application · They are used to control a maximum or minimum level.

Common data · Reduced dimensions.

- \cdot The length of the guide tube is fixed.
- · They have a single contact for maneuver.
- · By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Cable (m)	1 C
	IMN 50 NY V	0,5	



Process connection: Nipple. Nylon. M16x2
 Electrical connection: PVC cable

- Length: 55 mm
 Float: Cylindrical ø21x30 mm. Nylon 6.6 o PP
 Contacts: (NO) 15W/VA-0,3A/250VAC
 Density: 0,7 g/cm³
 Temperature: -30..+80 °C
 Protection: IP65

Products related with MAGNETIC SWITCHES		
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

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Application · They are used to control a maximum or minimum level.

- Common data · Made in PP
 - · Electrical connection: PVC cable
 - · Pressure: Atm
 - · Protection: IP65
 - · The length of the guide tube is fixed.
 - · They have a single contact for maneuver.
 - · By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Cable (m)	1 C
-	IMN 20 PP	0,3	



· Process connection: Nipple. M8. PP

- · Length: 43 mm
- · Float: Cylindrical ø19X16 mm. Foam · Contacts: (NO) 20W/VA/250VAC-1A
- Density: 0,75 g/cm³
 Temperature: -20..+60 °C

IMN 50 PP V





· Length: 55 mm

- Float: Cylindrical ø21x30 mm
- · Contacts: (NA) 15W/VA-0,3/250VAC
- Density: 0,7 g/cm³
- · Temperature: -30..+60 °C

Products related with MAGNETIC SWITCHES		Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

MAGNETIC SWITCHES: USEFUL INFORMATION

Operating principle

The Magnetic Level Switches are provided inside the tube with one or several reed hermetic contacts.

The float that travels along the tube contains a magnet whose magnetic field drives the contacts when it is at the same height. The contacts can be of type NO, NC or NONC.

The contacts are placed in the tube at the distances requested by the customer and its position cannot be modified. The float is the only moving element in a Magnetic Level Switch.

+34 934 560 995 disibeint@disibeint.com 58 www.disibeint.com Application · They are generally used to control a maximum level.

- Common data · Manufacted in SS AISI304
 - · Float: Cylindrical ø17x47 mm
 - Density: 0,7 g/cm³
 - · Temperature: -40..+125 °C
 - · Pressure: 5 kg/cm²
 - · Protection: IP67
 - · They have a single contact for maneuver.
 - · Contact: (NO) 50W/VA-0,5A/230VAC
 - · By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Cable (m)	1 C
	IMN 50 INOX H	0,3	



· Assembly from inside the tank

- · Process connection: Nipple. 1/8" G
- · Electrical connection: 2 PVC cables, 300 mm
- · Length: 94 mm

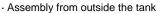


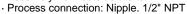
0,3



- · Assembly from outside the tank
- Process connection: Nipple. 1/2" NPT
 Electrical connection: 2 PVC cables, 300 mm
- · Longitud: 109 mm

IMN 52 TC INOX





Electrical connection: Connector Mini DIN43650

· Length: 109 mm

IMN 52 TCM12 INOX



- · Assembly from outside the tank
- Process connection: Nipple. 1/2" NPT
 Electrical connection: Connector M12 (IP67)
- · Length: 109 mm

Products related with MAGNETIC SWITCHES		Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

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Application · For installation on the side of the tank.

- Common data · They have a single contact for maneuver.
 - · Contact: (NO) 15W/VA-0,3A/250VAC
 - · By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Cable (m)	1 C
	IMN 50 NY H	0,5	



- · Process connection: Nipple M16x2 mm. Nylon
- · Electrical connection: PVC cable
- · Length: 58 mm
- Float: Cylindrical ø17x47 mm
 Density: 0,9 g/cm³
 Temperature: -30..+80 °C

- Protection: IP65

Produ	cts related with MAGNETIC SWITCHES	Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

MAGNETIC SWITCHES: USEFUL INFORMATION Handling The Magnetic Level Switch tube must not be bent or exposed to impacts since the reed contacts could be seriously damaged. The mechanical stops that may exist along the tube must not be readjusted since the correct operability of the contacts could be lost. Depending on the type of electrical connection, the use of the seals supplied and the adequacy of the diameter of the electrical cable to the cable glands must be ensured in order to prevent moisture penetration. If due to the conditions of the installation it is foreseeable that frequent temperature changes can occur with the consequent condensation inside the instrument, request that it be manufactured with one of the sealing versions. When carrying out the installation, it is necessary to check that the float can move freely along the tube and ensuring sufficient distance with the tank wall. The inclination of the instrument must not exceed ± 15° from the vertical.

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Application · For installation at the side of the tank.

 $\begin{center} \textbf{Common data} & \cdot \textbf{They have a single contact for maneuver}. \end{center}$

· Contact: (NO) 15W/VA-0,3A/250VAC

 \cdot By reversing the position of the float, it also reverses the state of the contact.

Image	Reference / Description	Cable (m)	1 C
	IMN 50 PP H	0,5	



Process connection: Nipple M16x2. PP
Electrical connection: PVC cable
Length: 58 mm
Float: Cylindrical Ø17x47 mm
Density: 0,7 g/cm³
Temperature: -30..+60 °C

Protection: IP65

IMN 60 PP H 0,3



Process connection: Nipple M16x2. PP
Electrical connection: PVC cable
Length: 60 mm
Float: Cylindrical Ø17,5x51 mm
Density: 0,7 g/cm³
Temperature: -10..+85 °C
Protection: IP65

Produc	cts related with MAGNETIC SWITCHES	Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

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- Application · For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Because of its small size is ideal for tanks with limited space.
 - · Custom fabrication to suit the installation conditions.

- Common data · Made in SS AISI316 (1.4401)
 - · Process connection: Nipple 1/8" G
 - · Electrical connection: Silicone cable
 - · Float: Cylindrical ø29x32 mm
 - · Contacts: (NO) 40W/VA-2A/230VAC/DC
 - · Contacts: (NC and NONC) 20W/VA-1A/150VAC/DC
 - · Density: 0,71 g/cm³
 - · Temperature: -40..+125°C
 - · Pressure: 15 kg/cm²
 - · Protection IP65

Image	Reference / Description	Connection	1 C	2 C	3 C
	IMN RPM INOX	1/8′′			
,	· Vertical installation	1/4′′			
+	· Length: 503500 mm	1/2′′			
0					







For	install	ation	in tl	he tai	nk side

· Length: 50..1000 mm

Acces	sories	Price
	Silicone cable, 1 m	
	Screw nut SS 1/8' 'G	
	Screw nut SS 1/4' 'G	

Products related with MAGNETIC SWITCHES	Page
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

MAGNETIC SWITCHES: USEFUL INFORMATION **Electrical connection** The manufacturing sheet that accompanies each instrument unequivocally details the maximum permitted values of voltage and intensity, which should not be exceeded even for short periods of time. Work values refer to resistive loads. When inductances are connected (relay or contactor coils, solenoid valves, etc.), the appropriate means must be used to protect the contacts of the overvoltage peaks they produce (RC filters, diodes, etc.). No special attention is required if the contacts are connected to a PLC. The electrical connection must be made in accordance with the scheme that appears on the manufacturing sheet, unique and specific to the instrument it accompanies. Coil protection in DC Coil protection in AC



- Application · For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Because of its small size is ideal for tanks with limited space.
 - · Custom fabrication to suit the installation conditions.

- Common data · Made in SS AISI316 (1.4401)
 - · Process connection: Top screw. 1"-1"1/4 G
 - · Float: Cylindrical ø29x32 mm
 - · Contacts: (NO) 40W/VA-2A/230VAC/DC
 - · Contacts: (NC and NONC) 20W/VA-1A/150VAC/DC
 - · Density: 0,71 g/cm³
 - · Temperature: -40..+125°C
 - · Pressure: 20 kg/cm²

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C
	IMN TPM INOX	1′′				
1	Electrical connection: Silicone cable Longth: 50, 3500 mm	1′′1/4				
4	Length: 503500 mm Protection: IP65					



IMN TPMA INOX

- · For installation on the side of the tank
- · Electrical connection: Silicone cable
- · Length: 50..1000 mm Bent elbow: 90°
- · Protection: IP65

-
430

IMN TCM INOX

- · Electrical connection: Connector DIN43650
- · Length: 100..3500 mm
- · Protection: IP65

1′′		
1′′1/4		

1′′

1′′1/4

1′′1/4



IMN TCMA INOX

- · For instalation in the tank side
- · Electrical connection: Connector DIN43650
- · Length: 50..1000 mm
- · Bent in elbow 90°
- · Protection: IP65

1′′		
1′′1/4		



IMN TCM12 INOX

- · Electrical connection: Miniature connector M12. The female connector is not supplied
- Length: 100..3500 mm · Protection: IP67

1′′		
1′′1/4		



IMN TCMA12 INOX

- \cdot For installation on the side of the tank
- · Connecting power: Miniature connector M12. The female connector is not supplied
- Length: 100..1000 mm
- Bent in elbow 90° · Protection: IP67

T
Modbus RTU

IMN TBM INOX

- · Process connection: Top screw. 1"-1"1/4 G
- · Electrical connection: Connection housing. PBT
- · Length: 100..3500 mm
- · Protection: IP67

1′′		
1′′1/4		

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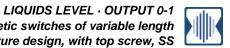


Image	Reference / Description	Connection	1 C	2 C	3 C	4 C
	IMN TBMA INOX	1′′				
	· For installation on the side of the tank	1′′1/4				
	 Electrical connection: Connection housing. PBT Length: 501000 mm 					



· Bent elbow 90° · Protection: IP67



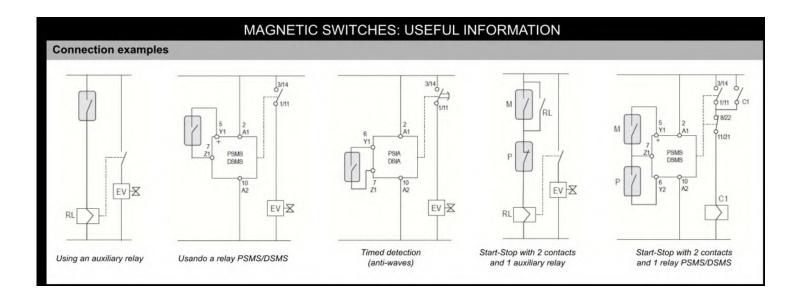
IMNR TBM INOX

- · Includes control maneuver with relay output · Output: Relay SPDT 6 A / 250 VCA
- · Electrical connection: Connection housing. PBT
- Length: 100..3500 mm Protection: IP67

1′′	
1′′1/4	

Accessories IMN - Miniature	Price
Tube SS Ø8 mm (1m)	
Silicone cable, 1 m	
Float SS Ø29 + stopping ring	
Protected version	
Filled with epoxy resine	
Female connector M8	
Female connector M12	
KNT8: Module for RS485 Modbus RTU communication	
Screw nut SS 1/8' 'G	
Screw nut SS 1' 'G	
Screw nut SS 1' '1/4G	

Produ	cts related with MAGNETIC SWITCHES	Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128



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- Application For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Because of its small size is ideal for tanks with limited space.
 - $\boldsymbol{\cdot}$ Custom fabrication to suit the installation conditions.

- Common data · Made in SS AISI316 (1.4401)
 - · Length: 50..3500 mm
 - · Float: Cylindrical ø29x32 mm
 - · Contacts: (NO) 40W/VA-2A/230VAC/DC
 - · Contacts:(NC and NO/NC) 20W/VA-1A/150VAC/DC
 - · Density: 0,71 g/cm³
 - · Temperature: -40..+125°C
 - · Pressure: 15 kg/cm²

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C
	IMN BCM INOX	Ø52 mm				
199	· Process connection: BR52 flange					



· Electrical connection: DIN43650 connector

· Protection: IP65



IMN CPM INOX

- Process connection: Clamp flange. 1" and 1"1/2
 Electrical connection: PVC / Silicone cable
- · Protection: IP65

1''		
1′′1/2		
2′′		
2′′1/2		



IMN CCM INOX

- · Process connection: Clamp flange. 1" and 1"1/2
- · Electrical connection: Connector DIN43650
- · Protection: IP65

1′′		
1′′1/2		
2′′		
2′′1/2		



IMN CBM INOX

- · Process connection: Clamp flange. 1" and 1"1/2
- · Electrical connection: Connection housing. PBT
- · Protection: IP67

1′′		
1′′1/2		
2′′		
2′′1/2		



IMNR CBM INOX

- · Includes control maneuver with relay output · Output: Relay SPDT 6 A / 250 VCA
- Process connection: Clamp flange. 1"..1"1/2
- · Electrical connection: Connection housing. PBT · Protection: IP67

1′′		
1′′1/2		
2′′		
2′′1/2		

Acces	sories IMN - Miniature	Price
	Tube SS Ø8 mm (1m)	
	Silicone cable, 1 m	
	Float SS Ø29 + stopping ring	
	Protected version	
	Filled with epoxy resine	
	KNT8: Module for RS485 Modbus RTU communication	

Products related with MAGNETIC SWITCHES	Page
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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- Application For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

- Common data · Made in SS AISI316 (1.4401)
 - · Process connection: Nipple. 3/8"-1/2" G (depending the model).
 - · Float: Spherical ø52 mm
 - · Contacts: (NO) 120W/VA-3A/250VAC/DC
 - · Contacts: (NC NO/NC) 60W/VA-1A/230VAC/DC
 - · Density: 0,7 g/cm³

	2 0.1.0.tj. 0,1 g/0
•	Pressure: 30 kg/cm ²

	Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
Ī	1	IMN RP INOX	3/8′′					
	1	Length: 903500 mm Electrical connection: PVC/Silicone cable Temperature: -40+125°C	1/2′′					
	ŏ		3/4′′					
		Protection: IP65						



IMN RPA INOX

- · For installation in the tank side
- · Length: 90..1000 mm
- · Electrical connection: PVC/Silicone cable
- Temperature: -40..+125°C
 Protection: IP65

3/8		
1/2′′		
3/4′′		
•		•



IMN RC INOX

- · Length: 90..3500 mm
- · Electrical connection: Miniature connector M8/M12
- Temperature: -40..+90°CProtection: IP67

1/2′′	
3/8′′	



IMN RCA INOX

- · For installation on the side of the tank
- · Length: 90..1000 mm
- · Connecting power: Miniature connector M8/M12
- · Temperature: -40..+90°C
- · Protection: IP67

1/2′′		
3/8′′		

ssories IMN - Standard, stainless steel	Price
Tube SS Ø12 mm (1m)	
Silicone cable, 1 m	
SS float Ø52 + stopping ring	
SS float Ø44x63 + stopping ring	
SS float Ø95 + stopping ring	
Bistable reed contact (Add bistable float)	
SS bistable float Ø52 + stopping ring (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
Female connector M8	
Female connector M12	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
Screw nut SS 3/8' 'G	
Screw nut SS 1/2' 'G	
Screw nut SS 3/4' 'G	

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4 C

5 C

- Application For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

- Common data · Manufactured in SS AISI316 (1.4401)
 - · Process connection: Top screw. 1"1/2"-2" G
 - · Float: Spherical ø52 mm
 - · Contact: (NO) 120W/VA-3A/250VAC/DC
 - · Contact: (NC NO/NC) 60W/VA-1A/230VAC/DC
 - · Density: 0,7 g/cm³
 - · Temperature: -40..+125 °C
 - · Pressure: 30 kg/cm²

Image	Reference / Description	Connection	1 C	2 C	3 C	<u>+</u>
,	IMN TP INOX	1′′1/2				
	Electrical connection: Cable Silicone Longth: 00, 3500 mm	2′′				
	Length: 903500 mm Protection IP65				3 C	



IMN TPA INOX

- · For the installation at the tank side
- Electrical connection: Silicone cable
 Length: 90..1000 mm
- · Protection IP65

1 1/2		
2′′		



IMN TC INOX

- · Electrical connection: Connector DIN43650
- · Length: 90..3500 mm
- · Protection IP65

1′′1/2		
2′′		



IMN TCA INOX

- · For the installation at the tank side
- · Electrical connection: Connector DIN43650
- Length: 90..1000 mm
- · Protection IP65

1′′1/2		
2′′		



IMN TC12 INOX

- · Electrical connection: Miniature connector M12
- Length: 90..3500 mm
- · Protection IP67

1′′1/2		
2′′		



IMN TCA12 INOX

- \cdot For the installation at the tank side
- · Electrical connection: Miniature connector M12
- · Length: 90..1000 mm
- · Protection IP67

1′′1/2		
2′′		



IMN TB INOX

- · Electrical connection: Connection housing. PBT
- · Length: 90..3500 mm
- · Protection: IP67

1′′1/2			
2′′			

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Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
	IMN TBA INOX	1′′1/2					
	 For the installation at the tank side Electrical connection: Connection housing. PBT Length: 901000 mm Protection: IP67 	2"					



IMNR TB INOX

- Includes control maneuver with relay output
 Output: Relay SPDT 6 A / 250 VCA
 Electrical connection: Connection housing. PBT
 Length: 90..3500 mm
 Protection IP67

	1′′1/2	
2′′	2′′	

sories IMN - Standard, stainless steel	Price
Tube SS Ø12 mm (1m)	
Silicone cable, 1 m	
SS float Ø52 + stopping ring	
SS float Ø44x63 + stopping ring	
SS float Ø95 + stopping ring	
Bistable reed contact (Add bistable float)	
SS bistable float Ø52 + stopping ring (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
Female connector M8	
Female connector M12	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
KNT8: Module for RS485 Modbus RTU communication	
Temperature sensor housed in the level switch (only for KNT8).	

Products related with MAGNETIC SWITCHES	
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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Application · For the detection of one or more level points.

· Used in maneuvers for filling, emptying, overfill alarm, etc.

· Custom fabrication to suit the installation conditions.

Common data · Manufactured in SS AISI316 (1.4401) · Float: Spherical ø52 mm. SS AISI316

· Contact: (NO) 120W/VA-3A/250VAC/DC

· Contact: (NC - NO/NC) 60W/VA-1A/230VAC/DC

· Density: 0,7 g/cm³

· Temperature: -40..+125°C

· Pressure: 30 kg/cm²

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
1	IMN BP INOX	Ø80 mm					



· Process connection: Flange ø80 mm. SS AISI316 (1.4401)

· Electrical connection: Silicone cable

· Length: 90..3500 mm · Protection: IP65



IMN BC INOX

Ø80 mm

Process connection: Flange ø80 mm. SS AISI316 (1.4401)
 Electrical connection: Connector DIN43650
 Length: 90..3500 mm

· Protection: IP65

INIT DD ITOX	IMN BB INOX Ø120 mm					
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· Process connection: Flange ø120 mm. PVC

· Electrical connection: Connection housing. PBT

· Length: 90..3500 mm · Protection: IP67

IMNR BB INOX Ø120 mm



· Includes control maneuver with relay output

- Output: Relay SPDT 6 A / 250 VCA

· Process connection: Flange ø120 mm. PVC

· Electrical connection: Connection housing. PBT

· Length: 1000..3500 mm

· Protection: IP67

1	IMN DP INOX	DN25			
	Process connection: Flange DIN. DN25DN100. SS AISI316	DN32			
	(1.4401) - Electrical connection: Silicone cable	DN40			
	· Length: 903500 mm · Protection: IP65	DN50			
•	1 Totalion. If 30	DN100			
0					



IMN DC INOX

· Process connection: Flange DIN. DN25..DN100. SS AISI316

Electrical connection: Connector DIN43650

· Length: 90..3500 mm

· Protection: IP65

DN25		
DN32		
DN40		
DN50		
DN100		

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Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
	IMN DB INOX	DN25					
Image Madbus Bill And Bus Bill Bill Bill Bill Bill Bill Bill Bil	Process connection: Flange DIN. DN25DN100. SS AISI316	DN32					
	(1.4401) • Electrical connection: Connection housing. PBT	DN40					
	Length: 903500 mm Protection: IP67	DN50					
0	· Flotection. IF67	DN100					
RTU B							•
	IMNR DB INOX	DN25					
	· Includes control maneuver with relay output	DN32					
	Output: Relay SPDT 6 A / 250 VCA Process connection: Flange DIN. DN25DN100. SS AISI316	DN40					
	(1.4401) • Electrical connection: Connection housing. PBT	DN50			1		
	· Length: 903500 mm	DN100			1		
Image Applications in the control of the control o	· Protection: IP67		•	•	•		
	IMN DBA INOX	DN25					
	For the installation at the tank side	DN32					
(2)	Process connection: Flange DIN. DN25DN100. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 901000 mm Protection: IP67	DN40					
Madburg Madbur		DN50					
		DN100					
RTU				•		_	
	IMNR DBA INOX	DN25					
	· For installation in the tank side	DN32					
	 Includes control maneuver with relay output Output: Relay SPDT 6 A / 250 VCA 	DN40					
	Process connection: Flange DIN. DN25DN100. SS AISI316 (1.4401)	DN50					
Y (4)	Electrical connection: Connection housing. PBT	DN100]		
	Length: 901000 mm Protection: IP67				-		
4	IMN DBL INOX	DN25					
	Process connection: Flange DIN. DN25DN100. SS AISI316	DN32					
	(1.4401) • Electrical connection: Connection housing. PBT	DN40					
And but a second and a second a	 Float: Spherical ø95x95 mm. SS AlSl316L (1.4404) Density: 0,36 o 0,45 g/cm³, according to float Length: 903500 mm 	DN50					
8		DN100					
	· Protection: IP67						
*	IMNR DBL INOX	DN25					
1	Includes control maneuver with relay output	DN32					
	Output: Relay SPDT 6 A / 250 VCA Process connection: Flange DIN. DN25DN100. SS AISI316	DN40]		
0-	Electrical connection: Connection housing. PBT Float: Spherical ø95x95 mm	DN50			1		
1	Density: 0,36 o 0,45 g/cm³, according to float	DN100			1		
	Length: 903500 mm Protection: IP67		•	•	-		

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Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
1	IMN CP INOX	2´´1/2					
A	Process connection: Brida Clamp. 2"1/2-3"-4". SS AISI316	3′′					
	(1.4401) · Electrical connection: Silicone cable	4′′					
	· Length: 903500 mm · Protection: IP65						



IMN CC INOX

· Process connection: Flange Clamp. 2"1/2-3"-4". SS AISI316

· Electrical connection: Connector DIN43650

Length: 90..3500 mm Protection: IP65

2′′1/2		
3′′		
4′′		



IMN CB INOX

· Process connection: Flange Clamp. 2"1/2-3"-4". SS AISI316 (1.4401)
• Electrical connection: Connection housing. PBT

· Protection: IP67

Licotriour commodicin.	Confidentificating. I	
Length: 903500 mm		

2′′1/2	
3′′	
4′′	

2′′1/2

3′′

4′′



IMNR CB INOX

· Includes control maneuver with relay output · Output: Relay SPDT 6 A / 250 VCA

Process connection: Flange Clamp. 2"1/2-3"-4". SS AISI316

Electrical connection: Connection housing. PBT

· Length: 90..3500 mm · Protection: IP67

ssories IMN - Standard, stainless steel	Price
Tube SS Ø12 mm (1m)	
Silicone cable, 1 m	
SS float Ø52 + stopping ring	
SS float Ø44x63 + stopping ring	
SS float Ø95 + stopping ring	
Bistable reed contact (Add bistable float)	
SS bistable float Ø52 + stopping ring (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
Female connector M8	
Female connector M12	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
KNT8: Module for RS485 Modbus RTU communication	
Temperature sensor housed in the level switch (only for KNT8).	

Products related with MAGNETIC SWITCHES	
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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- Application · For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

- Common data · Manufactured in PP
 - · Process connection: Nipple. 3/8"-1/2" G
 - · Floats: Cylindrical ø29x50 mm. and ø38x63 mm. PP
 - · Contact: (NO) 120W/VA-3A/250VAC/DC
 - · Contact: (NC NO/NC) 60W/VA-1A/230VAC/DC
 - · Density: 0,7 g/cm³
 - · Temperature: -10..+60°C
 - · Pressure: 3 kg/cm²

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
(IMN RP PP	3/8′′-1/2′′					



· Process connection: Nipple. 3/8"-1/2" G. PP

- · Electrical connection: PVC cable Length: 100..1000 mm tube Ø12 Length: 100..3500 mm tube Ø16
- · Protection IP65



IMN RPA PP

- \cdot For the installation at the tank side
- Length: 100..1000 mm tube Ø12
 Electrical connection: PVC/Silicone cable
- · Protection: IP65



IMN RC PP

- · Length: 100..1000 mm tube Ø12
- Length: 100..3500 mm tube Ø16
- Electrical connection: Miniature connector M8/M12
- · Protection: IP67

1/2′′		
3/8′′		

3/8′′-1/2′′



IMN RCA PP

- · For the installation at the tank side
- · Length: 100..1000 mm
- · Electrical connection: Miniature connector M8/M12
- · Protection: IP67

1/2′′		
3/8′′		

sories IMN - Standard, PP · Racor	Price
Tube PP Ø12 mm.(1m)	
Tube PP Ø16 mm.(1m)	
PVC cable, 1 m	
PP Float Ø29 mm + stopper	
PP float Ø38 mm + stopper	
Bistable reed contact (Add bistable float)	
PP bistable float Ø38 mm + stopper (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
Female connector M8	
Female connector M12	

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- Application For the detection of one or more level points.
 Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
1	IMN RP PVDF	1/2′′					



Process connection: Nipple. 1/2" G. PVDF
 Electrical connection: Teflon cable. Optional Silicone

 Electrical connection: Teflon cable. Optional Silico
 Length: 100..3500 mm
 Float: Cylindrical ø38x60 mm
 Contact: (NO) 120W/VA-3A/250VAC/DC
 Contact: (NC - NO/NC) 60W/VA-1A/230VAC/DC
 Density: 0,56 g/cm³
 Temperature: -30..+125 °C
 Pressure: 3 kg/cm²
 Protection: IP65 · Protection: IP65

cessories IMN - Standard, PVDF	Price
Tube PVDF Ø16 mm (1m)	
PVDF float Ø38 mm + stopper	
PTFE cable, 1 m	
Protected version	
Filled with epoxy resine	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	

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- Application For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

Common data · Made in PP

- · Process connection: Nipple. 1"-1"1/4-1"1/2-2" G.
- · Length: 100..3500 mm
- · Temperature: -30..+125°C
- · Pressure: 2 kg/cm²
- · Protection IP67

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
/ IMN TP PP		1″					
-cum		1′′1/4-1′′1/2-2′′					
	 Length: 1001000 mm. Tubo Ø12 mm Length: 1003500 mm. Tubo Ø16 mm 						



IMN TPA PP

· Protection IP65

- For the installation at the tank side
 Electrical connection: PVC cable
 Length: 100...1000 mm

- Protection: IP65

1′′		
1′′1/4-1′′1/2-2′′		



IMN TC PP

- · Electrical connection: Connector DIN43650
- Length: 100..1000 mm tube Ø12
 Length: 100..3500 mm tube Ø16
 Protection IP65

1′′		
1′′1/4-1′′1/2-2′′		



IMN TCA PP

- · For the installation at the tank side
- · Electrical connection: Connector DIN43650
- Length: 100..1000 mm
- · Protection IP65

1″		
1′′1/4-1′′1/2-2′′		



IMN TC12 PP

- · Electrical connection: Connector miniature M12
- Length: 100..1000 mm tube Ø12 Length: 100..3500 mm tube Ø16
- · Protection IP67

1′′		
1′′1/4-1′′1/2-2′′		



IMN TCA12 PP

- \cdot For the installation at the tank side
- Electrical connection: Connector miniature M12
- · Length: 100..1000 mm
- · Protection IP67

1′′		
1′′1/4-1′′1/2-2′′		

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mage
I
Modbus RTU

IMN TB PP

Electrical connection: Connection housing. PBT
Length: 100..1000 mm tube Ø12
Length: 100..3500 mm tube Ø16

Reference / Description

- · Protection IP67

Connection	1 C	2 C	3 C	4 C	5 C
1′′					
1′′1/4-1′′1/2-2′′					

IMN TBA PP



- For the installation at the tank side
 Electrical connection: Connection housing. PBT
- · Length: 100..1000 mm
- · Protection IP67

1″		
1′′1/4-1′′1/2-2′′		



IMNR TB PP

- Includes control maneuver with relay output
 Output: Relay SPDT 6 A / 250 VCA
 Electrical connection: Connection housing. PBT
 Length: 100..1000 mm tube Ø12
 Length: 100..3500 mm tube Ø16
 Protection IP67

1′′	
1′′1/4-1′′1/2-2′′	

ssories IMN · Standard, PP	Price
Tube PP Ø12 mm.(1m)	
Tube PP Ø16 mm.(1m)	
PVC cable, 1 m	
PP Float Ø29 mm + stopper	
PP float Ø38 mm + stopper	
Bistable reed contact (Add bistable float)	
PP bistable float Ø38 mm + stopper (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
KNT8: Module for RS485 Modbus RTU communication	
Temperature sensor housed in the level switch (only for KNT8).	
Female connector M8	
Female connector M12	

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Application • They have a single contact for maneuver.

 \cdot By reversing the position of the float, it also reverses the state of the contact.

Common data · Process connection: Nipple. 3/4" G \cdot Electrical connection: Connector DIN43650

· Contact: (NO) 15W/VA-0,3A/250VAC

· Body: PVC

· Length: 150..1000 mm

· Protection: IP65

Image	Reference / Description	Connection	1 C
60	IMN 50 TC NY V	3/4′′-1′′	



· Vertical installation

- · Float: Cylindrical ø21x30 mm. Nylon
- · Temperature: -30..+60°C
- Density: 0,9 g/cm³



IMN 50 TC NY H

· For instalation in the tank side

- Float: Cylindrical ø17x50 mm. Nylon Temperature: -30..+60°C Density: 0,9 g/cm³



IMN 50 TC PP V

· Vertical installation

- · Float: Cylindrical ø21x30 mm. PP
- · Temperature: -30..+60°C
- Density: 0,7 g/cm³



IMN 50 TC PP H

· For installation in the tank side

Body: PVC
 Float: Cylindrical ø17x50 mm. PP

· Temperature: -30..+60°C

· Density: 0,7 g/cm³

1/2′′-3/4′′-1′′

3/4′′-1′′

1/2~-3/4~-1~

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- Application For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

- Common data · Made in PVDF
 - · Process connection: Nipple. 1"1/4-1"1/2-2" G. - Electrical connection: Connection housing. PBT
 - · Length: 100..3500 mm
 - · Float: Cylindrical ø38x60 mm

 - Density: 0,56 g/cm³
 Temperature: -30..+125°C
 Pressure: 2 kg/cm²

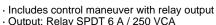
 - · Protection IP67

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
	IMN TB PVDF	2′′					



IMNR TB PVDF

2′′





· Output.	Itelay	OI.	וט	0 / /	200	V C/

Acces	sories IMN - Standard, PVDF	Price
	Tube PVDF Ø16 mm (1m)	
	PVDF float Ø38 mm + stopper	
	PTFE cable, 1 m	
	Protected version	
	Filled with epoxy resine	
	PT100 temperature sensor, housed in the level switch.	
	Clixon thermostat, 75°C, housed in the level switch.	
	KNT8: Module for RS485 Modbus RTU communication	
	Temperature sensor housed in the level switch (only for KNT8).	

Products related with MAGNETIC SWITCHES			
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131	
	Timer anti turbulence: PSIA/DSIA		
	Relays for control of pumps	128	

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Application · For the detection of one or more level points.

· Used in maneuvers for filling, emptying, overfill alarm, etc.

· Custom fabrication to suit the installation conditions.

Common data · Made in PP

· Floats: Cylíndrical, ø29x50 or ø38x60 mm

· Temperature: -10..+60°C

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
/	IMN BP PP	Ø68 mm					



· Process connection: Flange. ø68 mm. PP

· Electrical connection: PVC cable

Length: 100..1000 mm tube Ø12 Length: 100..3500 mm tube Ø16

· Protection: IP65



IMN BC PP

· Process connection: Flange. ø68 mm. PP

· Electrical connection: Connector DIN43650

Length: 100..1000 mm tube Ø12 Length: 100..3500 mm tube Ø16

· Protection: IP65

Ø68 mm			
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IMN BCA PP

- · For the installation at the tank side
- Process connection: Flange. ø68 mm. PP
 Electrical connection: Connector DIN43650
- · Length: 100..1000 mm
- · Protection: IP65

Ø68 mm		



IMN BB PP

- · Process connection:
- · Electrical connection: Connection housing. PBT
- · Length: 100..1000 mm tube Ø12
- · Length: 100..3500 mm tube Ø16
- · Protection: IP67

	Ø120 mm			
n: Flange. ø120 mm. PP				

DNIGE

Ø120 mm



IMN DP PP

- Process connection: Flange DIN. DN25..DN100. PP
 Electrical connection: PVC cable

- Length: 100..1000 mm tube Ø12 Length: 100..3500 mm tube Ø16
- · Protection: IP65

DNZ5			
DN32			
DN40			
DN50			
DN80			
DN100			



IMNR BB PP

- · Includes control maneuver with relay output
- Output: Relay SPDT 6 A / 250 VCA
- Process connection: Flange. ø120 mm. PP · Electrical connection: Connection housing. PBT
- Length: 100..1000 mm tube Ø12
 Length: 100..3500 mm tube Ø16

10	Protection: IP67		

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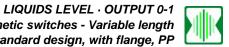


Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
-	IMN DC PP	DN25					
9	Process connection: Flange DIN. DN25DN100. PP	DN32]	
	Electrical connection: Connector DIN43650 Length: 1001000 mm tube Ø12	DN40					
	Length: 1003500 mm tube Ø16 Protection: IP65	DN50					
1	- I Totection. II 00	DN80					
4		DN100					
- 4	IMN DB PP	DN25					
	Process connection: Flange DIN. DN25DN100. PP	DN32					
	 Electrical connection: Connection housing. PBT Length: 1001000 mm tube Ø12 Length: 1003500 mm tube Ø16 Protection: IP67 	DN40					
		DN50					
Marthus		DN80					
RTU		DN100					
	IMN DBA PP	DN25					
0	 For the installation at the tank side Process connection: Flange DIN. DN25DN100. PP Electrical connection: Caixa de connexions. PBT 	DN32					
		DN40					
	Length: 1001000 mm Protection: IP67	DN50					
Marthus	· Flotection. IFO7	DN80					
RTU		DN100					
	IMNR DB PP	DN25					
	Includes control maneuver with relay output	DN32			1		
	 Output: Relay SPDT 6 A / 250 VCA Process connection: Flange DIN. DN25DN100. PP 	DN40			1		
I	 Electrical connection: Connection housing. PBT Length: 1001000 mm tube Ø12 	DN50			1		
	 Length: 1003500 mm tube Ø16 	DN80			1		
	Protection: IP67]		
	IMNR DBA PP	DN25					
	· For the installation at the tank side	DN32			1		
	 Includes control maneuver with relay output Output: Relay SPDT 6 A / 250 VCA 	DN40			1		
4 17	Process connection: Flange DIN. DN25DN100. PP Electrical connection: Connection housing. PBT	DN50			1		
	· Length: 1001000 mm	DN80			1		
	· Protection: IP67	DN100			1		

Accessories IMN · Standard, PP	Price
Tube PP Ø12 mm.(1m)	
Tube PP Ø16 mm.(1m)	
PVC cable, 1 m	
PP Float Ø29 mm + stopper	
PP float Ø38 mm + stopper	
Bistable reed contact (Add bistable float)	
PP bistable float Ø38 mm + stopper (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
KNT8: Module for RS485 Modbus RTU communication	
Temperature sensor housed in the level switch (only for KNT8).	
Female connector M8	
Female connector M12	

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- Application · For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Custom fabrication to suit the installation conditions.

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Madhus	
Modbus RTU	13

IMN DB PVDF

- · Made in PVDF
- Process connection: Flange DIN. DN25..DN100, PP
 Electrical connection: Connection housing. PBT

Reference / Description

- Length: 100..3500 mm
 Float: Cylindrical ø38x60 mm
 Density: 0,56 g/cm³
 Temperature: -30..+125°C
- Pressure: 2 kg/cm²
 Protection IP67

Connection	1 C	2 C	3 C	4 C	5 C
DN25					
DN32					
DN40					
DN50					
DN100					



IMNR DB PVDF

- · Made in PVDF
- Process connection: Flange DIN. DN25..DN100, PP
 Electrical connection: Connection housing. PBT

- Electrical connection: Connect Length: 100..3500 mm Float: Cylindrical ø38x60 mm Density: 0,56 g/cm³ Temperature: -30..+125°C
- Pressure: 2 kg/cm²
 Protection IP67
- · Includes control maneuver with relay output · Output: Relay SPDT 6 A / 250 VCA

Connection	1 C	2 C	3 C	4 C	5 C
DN25					
DN32					
DN40					
DN50					
DN100					

DN25..DN100

Access	sories IMN - Standard, PVDF	Price
	Tube PVDF Ø16 mm (1m)	
	PVDF float Ø38 mm + stopper	
	PTFE cable, 1 m	
	Protected version	
	Filled with epoxy resine	
	PT100 temperature sensor, housed in the level switch.	
	Clixon thermostat, 75°C, housed in the level switch.	
	KNT8: Module for RS485 Modbus RTU communication	
	Temperature sensor housed in the level switch (only for KNT8).	

Produ	cts related with MAGNETIC SWITCHES	Page
	Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
	Timer anti turbulence: PSIA/DSIA	112
	Relays for control of pumps	128

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- Application · For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Once installed in the tank, you can adjust the height of the guide tube.
 - · Custom fabrication to suit the installation conditions.

- Common data · Made in SS AISI316 (1.4401)
 - · Process connection: Nipple 1"1/2-2" G
 - · Length: 100..3500 mm
 - · Float: Spherical ø52 mm and Cylíndrical ø44x62 mm
 - · Contact: (NO) 120W/VA-3A/250VAC/DC
 - · Contact: (NC NO/NC) 60W/VA-1A/230VAC/DC
 - · Density: 0,7 g/cm³
 - · Temperature: -40..+125°C
 - · Pressure: Atmosphere

Image	Reference / Description	Connection	1 C	2 C	3 C
-	IMN TAC INOX	1′′1/2-2′′			



Electrical connection: Connector DIN43650
 Protection: IP65



IMN TAB INOX

Electrical connection: Connection housing. PBT
 Protection: IP67

1′′1/2-2′′



IMNR TAB INOX

- 2′′
- · Includes control maneuver with relay output · Output: Relay SPDT 6 A / 250 VCA
- · Electrical connection: Connection housing. PBT
- · Protection: IP67

Accessories IMN - Standard, stainless steel	Price
Tube SS Ø12 mm (1m)	
Silicone cable, 1 m	
SS float Ø52 + stopping ring	
SS float Ø44x63 + stopping ring	
SS float Ø95 + stopping ring	
Bistable reed contact (Add bistable float)	
SS bistable float Ø52 + stopping ring (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
Female connector M8	
Female connector M12	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
KNT8: Module for RS485 Modbus RTU communication	
Temperature sensor housed in the level switch (only for KNT8).	

Products related with MAGNETIC SWITCHES	Page
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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- Application For the detection of one or more level points.
 - · Used in maneuvers for filling, emptying, overfill alarm, etc.
 - · Once installed in the tank, you can adjust the height of the guide tube.
 - · Custom fabrication to suit the installation conditions.

Common data · Made in PP

- · Process connection: Nipple 1"1/4-1"1/2-2" G
- · Length: 100..1500 mm
- · Float: Cylindrical ø29x50 or ø38x60 mm
- · Contact: (NO) 120W/VA-3A/250VAC/DC
- · Contact: (NC NO/NC) 60W/VA-1A/230VAC/DC
- · Density: 0,65 g/cm³
- · Temperature: -10..+60°C
- · Pressure: Air

Image	Reference / Description	Connection	1 C	2 C	3 C
	IMN TAC PP	1′′			
-	· Electrical connection: Connector DIN43650	1′′1/4-1′′1/2-2′′			
4	· Protection: IP65				
I					



IMN TAB PP

- Electrical connection: Connection housing. PBT
 Protection: IP67

1′′		
1′′1/4-1′′1/2-2′′		



IMNR TAB PP

- · Includes control maneuver with relay output · Output: Relay SPDT 6 A / 250 VCA
- · Electrical connection: Connection housing. PBT
- · Protection: IP67

1′′	
1′′1/4-1′′1/2-2′′	

Accessories IMN - Standard, PP · Racor	Price
Tube PP Ø12 mm.(1m)	
Tube PP Ø16 mm.(1m)	
PVC cable, 1 m	
PP Float Ø29 mm + stopper	
PP float Ø38 mm + stopper	
Bistable reed contact (Add bistable float)	
PP bistable float Ø38 mm + stopper (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
Female connector M8	
Female connector M12	

Products related with MAGNETIC SWITCHES	Page
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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level sensors and relays

Application · For the detection of one or more level points.

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

· Manufacturing tailored to meet the conditions of the installation.

Common data · Electrical connection: DIN43650 Connector

· Guide Tube: SS AISI316 (1.4401)

· Length: 90..3500 mm

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C	5 C
	IMN TCM PVC INOX PP	3/4′′				-	
Ī	 Process connection: Top screw. 3/4" G. PVC Electrical connection: Connector DIN43650 Mini Guide Tube: Ø8 mm. SS AISI316 (1.4401) Float: Cylindrical Ø25x25 mm. PP Contact: (NA) 40W/VA-2A/230VCA/CC Contact: (NC - NO/NC) 20W/VA-1A/150VCA/CC Density: 0,5 g/cm³ Temperature: -30+85 °C Pressure: 2 kg/cm² 						
	IMN TCM INOX PP	3/4′′					



IMN ICM INOX PI

- · Process connection: Top screw. 3/4"G SS
- Electrical connection: DIN43650 Connector Mini
 Guide Tube: Ø8 mm. SS AISI316 (1.4401)
- · Float: Cylindrical ø25x25 mm. PP
- · Contact: (NA) 40W/VA-2A/230VCA/CC · Contact: (NC NO / NC) 40W/VA-2A/230VCA/CC
- Density: 0,5 g/cm³
- Temperature: -30..+85 °C
- · Pressure: 2 kg/cm²

IMN TC PVC INOX PA

- · Process connection: Top screw. 1" G. PVC
- · Electrical connection: DIN43650 Connector
- · Guide Tube: ø12 mm. SS AISI316 (1.4401)
- Float: Cylindrical ø29x50 mm. PA
- · Contact: (NA) 120W/VA-3A/250VCA/CC
- Contact: (NC NO / NC) 60W/VA-1A/230VCA/CC
- Density: 0,6 g/cm³
- · Temperature: -20..+90 °C
- Pressure: 3 kg/cm²

IMN BCM INOX PA · Process connection: Flange. ø52 mm. SS · Electrical connection: DIN43650 Connector

· Guide Tube: ø12 mm. SS AISI316 (1.4401) · Float: Cylindrical ø29x50 mm. PA

- Contact: (NA) 120W/VA-3A/250VCA/CC
 Contact: (NC NO / NC) 60W/VA-1A/230VCA/CC
- Density: 0,6 g/cm³
 Temperature: -20..+90 °C
- · Pressure: 3 kg/cm²

IMN BC PVC INOX PA

- Process connection: Flange. ø68 mm. PVC
 Electrical connection: DIN43650 Connector
 Guide Tube: ø12 mm. SS AISI316 (1.4401)
 Float: Cylindrical ø29x50 mm. PA

- Contact: (NA) 120W/VA-3A/250VCA/CC
 Contact: (NC NO/NC) 60W/VA-1A/230VCA/CC
- Density: 0,6 g/cm³ Temperature: -20..+90 °C
- · Pressure: 3 kg/cm²

IMN TB PVC INOX PA

- · Process connection: Top screw. 1"G .. 2"G. PVC
- · Electrical connection: Housing, PBT
- Guide Tube: ø12 mm. SS AIŠÍ316 (1.4401)
- · Float: Cylindrical ø29x50 mm. PA
- Contact: (NA) 120W/VA-3A/250VCA/CC
 Contact: (NC NO/NC) 60W/VA-1A/230VCA/CC
- Density: 0,6 g/cm³
- · Temperature: -20..+90 °C Pressure: 3 kg/cm²

1′′-1/4-1′′1/2-2′′

Ø52	mm	

Ø68 mm

1	´´-1/4-1	′′1/2 - 2′′

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Accessories IMN · Hybrid models	Price
Tube SS Ø8 mm (1m)	
Tube SS Ø12 mm (1m)	
PP float Ø25 mm + SS stopper	
PA Float Ø29 mm + stopper	
Protected version	
Filled with epoxy resine	

Products related with MAGNETIC SWITCHES	Page
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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- Application · For the detection of one or more level points.
 - \cdot Used in maneuvers for filling, emptying, overfill alarm, etc.
 - <u>Simple Electrical Apparatus</u>>. It may be used in areas classified as Intrinsically Safe whenever you connect an associated equipment such as a zener barrier or galvanic isolator.
 - · Applicable a zones 0, 1, 2, 20, 21 and 22
 - · Custom fabrication to suit the installation conditions.

- Common data · Electrical connection: Certificate connection housing. Aluminium
 - · Length: 100..3500 mm
 - · Float: Spherical ø52 mm and Cylindrical ø44x63 mm
 - · Contact: (NO) 120W/VA-3A/250VAC/DC
 - · Contact: (NC NO/NC) 60W/VA-1A/230VAC/DC
 - · Density: 0,7 g/cm³ · Temperature: -40..+125°C · Pressure: 30 kg/cm²

· Protection IP66

Image	Reference / Description	Connection	1 C	2 C	3 C
	IMN TBEX INOX	2′′			

DN50



· Process connection: Top screw. 1"1/2..3". SS AISI316

IMN DBEX INOX · Process connection: Flange DIN. DN 25..DN 100. SS AISI316 (1.4401)



sories IMN - Standard, stainless steel	Price
Tube SS Ø12 mm (1m)	
Silicone cable, 1 m	
SS float Ø52 + stopping ring	
SS float Ø44x63 + stopping ring	
SS float Ø95 + stopping ring	
Bistable reed contact (Add bistable float)	
SS bistable float Ø52 + stopping ring (Add bistable contacts)	
Protected version	
Filled with epoxy resine	
Female connector M8	
Female connector M12	
PT100 temperature sensor, housed in the level switch.	
Clixon thermostat, 75°C, housed in the level switch.	
Screw nut SS 3/8' 'G	
Screw nut SS 1/2' 'G	
Screw nut SS 3/4' 'G	

Products related with Ex MAGNETIC SWITCHES	Page
Galvanic isolator for contacts: AG-5202-B	142

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Application · Suitable for deep-sea deposits and limited space at the top to introduce a rigid sensor.

It is composed of rigid pipe sections (includes contact and float) and flexible sections to reach the desired height and shape.

Image	Reference / Description	Connection	1 C	2 C	3 C	4 C
	IMN FLX TB INOX	1′′-1′′1/2-2′′				



IMN FLX TB INOX

- Manufactured in SS AISI316 (1.4401)
 Process connection: Nipple 1"-1"1/2-2" G
 Electrical connection: Connection housing. PBT

- Float: According to the installation conditions
 Contact: (NO) 120W/A-3A/250VAC/DC
 Contact: (NC NO/NC) 60W/VA-1A/230VAC/DC
 Length: 250..2500 mm
 Temperature: -40..+125°C

- Counterweight: Defined by the size of the whole Protection IP67

Products related with MAGNETIC SWITCHES	Page
Protective relay of contacts: PSMS/DSMS, PSPS/DSPS	131
Timer anti turbulence: PSIA/DSIA	112
Relays for control of pumps	128

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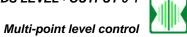
- Application

 Modular system for level control, comprising a sensor IMN MPS in which they are installed, according to the function to perform, from 1 to 80 modules MPS05 or MPS80 to send the signal to a controller or SNI SNIA respectively.

 The controllers are responsible for displaying and managing the action of the three relays connected to the pumps, alarms or other devices for level
 - controlling.
 - · User configurable
 - · Custom fabrication to suit the installation conditions.

- Common data · Electrical connection: Connection housing. PBT
 - · Length: 100..2500 mm
 - Temperature: -20..+60°C
 Protection IP67

Image	Reference / Description	Length	Price
	IMN MPS DB INOX	300	
	· Manufactured in SS AISI316 (1.4401)	500	
	Process connection: Flange DIN. DN 25DN 50 Float: Cylindrical ø52x52 mm	1000	
	· Density: 0,55 g/cm³ · Pressure: 15 kg/cm²	1500	
Ψ	1 1000 d. 0. 10 Ng/0111	2000	
		2500	
		3000	
	IMN MPS DB PVC	300	
	Manufactured in PVC/PP	500	
	 Process connection: Flange DIN. DN 25DN 50. PVC Float: Cylindrical ø38x60 mm. PP 	1000	
	· Density: 0,40 g/cm³ · Pressure: 3 kg/cm²	1500	
0	- 1 1033drd. 5 kg/dff	2000	
4		2500	
		3000	
	IMN MPS TB INOX	300	
0	· Manufactured in SS AISI316 (1.4401)	500	
	Process connection: Top screw. 1"1/42"1/2 G. SS AISI316 (1.4401) Float: Cylindrical ø52x52 mm	1000	
I	Density: 0,55 g/cm ³ Pressure: 15 kg/cm ²	1500	
TO THE	· Flessule. 13 kg/clif-	2000	
T.		2500	
		3000	
	IMN MPS TB PVC	300	
0	· Manufactured in PVC/PP	500	
7	 Process connection: Top screw. 1"1/42"1/2 G. PVC Float: Cylindrical ø38x60 mm. PP 	1000	
I	· Density: 0,40 g/cm³ · Pressure: 3 kg/cm²	1500	
N)	· Flessule. 3 kg/dilf	2000	
4		2500	
		3000	
*	IMN MPS TB PVDF	300	
	Manufactured in PVDF	500	
	 Process connection: Top screw. 1"1/42"1/2 G Float: Cylindrical ø38x60 mm 	1000	
Ī	Density: 0,56 g/cm² Pressure: 2 kg/cm²	1500	
	· 1 1633416. 2 NY/UIIF	2000	
		2500	
		3000	





Accessories IMN MPS		Price
MPS	05 - Detection module for SNIA	
MPS	30 - Detection module for SNI9	
MPM	- Assembly for each module	

Products related with MULTIPOINT SWITCHES	
Digital multipoint relay: SNI	103
Analog multipoint relay: SNIA	103



External control



Image	Reference / Description	Cable (m)	Price
	SICE	1	
-(1)	· Level control system from outside the tank	2	
	Usable with most liquids M30 capacitive sensor detection (not included)	3	
0	Quick and easy installation Fastening with adjustable straps Velcro fastening (R)		
102-21	SCET	2	



Capacitive sensor for level limit detection
Detects through non-conductive walls (8 mm)
Body adapted to installation in tubes



2 **SCEP**

Capacitive sensor for level limit detection
Detects through non-conductive walls (8 mm)
Body adapted to installation in plain surfaces

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Price

- Application The by-pass indicators are used to visually and/or electrically control the volume of liquid in the tank.
 - · They are installed outside the tank as a communicating vessel.
 - · They can incorporate electrical elements of measurement and control for the automation of the process.
 - · Custom fabrication to suit the installation conditions.

Image Reference / Description **BP 100 INOX** · Electric water level control in tanks and visual · Side mounting · Several options for the process connection · Manufactured in SS AISI316 (1.4401)



BP 100 PP

- · Electrical and visual level control in tanks
- Side mountingDifferent posibilities to process connection
- Manufactured in Polypropylene



BP 100 PVDF

- · Electric water level control in tanks and visual
- Side mounting
- Options for connection to process
- Manufactured in PVDF



BP 200 INOX

- · Electric and visual level control in tanks
- · Top mounting
- · Options for connection to process
- Manufactured in SS AISI316 (1.4401)



BP 300 INOX

- · By-pass adapter to switch or magnetic transducer
- · Manufactured in SS AISI316 (1.4401)



BP 300 PVC

- · By-pass level indicator with double process connection
- Manufactured in transparent PVC



BP 400 PVC

- · By-pass level indicator with single process connection
- · Manufactured in PVC transparent



BPC EX

- By-pass accessory
- · Independent level points detection
- Ex version
- · Manufactured in Aluminum

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- Application · Used to visually control the volume of liquid in a tank.
 - They are installed on the outside of the deposit itself.
 - · They can incorporate electrical elements of measurement and control for the automation of the process.
 - · Custom manufacturing to adjust to the conditions of the installation.

Image Reference / Description Price **IMN OP-EL INOX**



- · Level switch manufactured in SS AISI316 (1.4401) · Process connection : Female thread 3/4" G. Alumínium
- · Electrical connection: Silicone cable
- · Glass: ø66 mm. Pyrex
- · Length: 100..2000 mm
- Temperature: -30..+130 °C . Protection: IP 65



IMN OP-EL PVC

- · Viewfinder and level switch set
- Lower and upper ends: PP
 Glass: ø50 mm, Pyrex
 Glass protector: PVC

- · Connection level switch: 1 "G
- · Connection process: Thread 3/4 "G, lateral or inferior
- Length: 100..2000 mm
- Temperature: -30 .. + 65 °C Protection: IP65



IBT 32 PVC

- · Control optical and/or electrical of the level in tanks at atmospheric pressure
- · Compound elbows, counterweight and signaling (for the other pieces, see accessories)
- Process connection: Flange DN25, PVC
 Tube: ø32 mm. PVC Glass
- · Temperature: -10..+60 °C



IBT 63 PVC

- · Control optical and/or electrical of the level in tanks at atmospheric pressure
- Compound elbows, counterweight and float (for the other pieces, see accessories)
 Process connection: Flange ø110 mm, PVC
- · Tube: ø63 mm. PVC Glass
- · Temperature: -10..+60 °C



BPCB-63



- · Detection of the level in pipes or in by-pass sensors
- Assembly on the outside of a tube ø63 mm
 Output: Bistable reed 2A/230VCA
- Contact NO or NC according to the position of all Electrical connection: DIN43650 connector





- · Float for BPCB-63 contact
- Manufactured in PP
- Temperature: -10..+80 °C
- Dimensions: Ø49x130 mm
- · Density: 0,7 g/cm3

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Image	Reference / Description	Price
	BPCBA-50	



- Detection of the level in pipes or in by-pass sensors
 Assembly on the outside of a tube ø 50 mm
 Output: Bistable reed 2A/230VAC
 Contact NO or NC according to the position of all
 Electrical connection: DIN43650 connector

FCPP06M18



- · Float for BPCBA-50 contact
- Hoat for broba-so conta Manufactured in PP Temperature: -10..+80 °C Dimensions: Ø38x60 mm Density: 0,7 g/cm3

TMN 300 BP INOX



- Magnetic transducer for continuous level reading
 Output: Analog 4..20 mA, 10..35VDC
 Process connection: Clamp flange SS AISI304 (1.4301)
 Measurement distance up to 2500 mm
 Electrical connection: Connection housing. PBT
 Temperature: -20..+100°C

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- Application They are used to obtain a continuous reading of liquid level.
 - · When the float rises or falls due to the action of the liquid, are activated or deactivated respectively a series of reed switches that generate an output proportional to the height of the level.
 - · A single model allows the connection of 2, 3 or 4 wire systems.

- Common data · Electrical connection: Connection housing. PBT
 - · Output range: 4..20 mA
 - Distance between contacts: 10 mm. Optional 5 mm.
 Supply voltage: VAC, VDC
 Protection: IP67

Image	Reference / Description	Length	Step 5	Step 10
	TMN 300 TB INOX	150		
	Process connection: Top screw. 2" G. SS AISI316 (1.4401)	500		
dla.	Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401)	1000		
4	Temperature: -20+100 °C Pressure: 30 kg/cm²	1500		
813	· Flessure. 30 kg/cm	2000		
Modbus RTU		2500		
	TMN 300 DB INOX	150		
	· Process connection: Flange DIN, DN 50, SS AISI316 (1,4401)	500		
	 Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) 	1000		
	Temperature: -20+100 °C	1500		
n	Pressure: 30 kg/cm²	2000		
Modbus RTU		2500		
	TMN 300 DBR INOX	2500		
	Process connection : Flange DIN. DN 100. SS AISI316 (1.4401)	3000		
	Length: 25005000 mm	3500		
	· Float: Spherical ø95 mm. SS AISI316L (1.4404) · Temperature: -20+100 °C	4000		
	· Pressure: 25 kg/cm²			
		4500 5000		
	TMN 300 CB INOX	150		
	 Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Length: 1502500 mm 	500		
4	· Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401)	1000		
+	· Temperature: -20+100 °C · Pressure: 30 kg/cm²	1500		
Madhus		2000		
T BTU IF		2500		
	TMN 300 TB PP	150		
	Process connection: Top screw. 2" G. PP	500		
	Length: 2002500 mm Float: Cylindrical ø38x60 mm. PP	1000		
3	· Temperature: -10+80 °C · Pressure: 3 kg/cm²	1500		
	· Fressure. 5 kg/cm	2000		
RTU T		2500		
	TMN 300 TB PVDF	150		
	· Process connection: Top screw. 1"1/42" G. PVDF	500		
	Length: 1002500 mm Float: Cylindrical ø38x60 mm. PVDF	1000		
	· Temperature: -10+100 °C	1500		
	· Pressure: 3 kg/cm²	2000		
Madbus		2500		

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Image	Reference / Description	Length	Step 5	Step 10
- 12	TMN 300 DB PP	150		
	Process connection: Flange DIN. DN 25DN 100. PP	500		
	· Length: 2002500 mm · Float: Cylindrical ø38x60 mm. PP	1000		
	· Temperature: -10+80 °C · Pressure: 3 kg/cm²	1500		
i i	1 1033dic. 5 kg/cm	2000		
Modbus RTU		2500		
7.7	TMN 300 DB PVDF	150		
	Process connection: Flange DIN. DN 25DN 100. PP Length: 1002500 mm Float: Cylindrical Ø38x60 mm. PVDF Temperature: -10+100 °C Pressure: 3 kg/cm ²	500		
		1000		
18		1500		
		2000		
Madbus RTU		2500		
	TMN 300 TB PP INOX PA	150		
	· Process connection: Top screw. 1" G. PP · Length: 2002500 mm, tube SS AISI316	500		
-	 Length: 2002500 mm, tube SS AISI316 Float: Cylindrical ø29x50 mm. PA Temperature: -10+80 °C Pressure: 3 kg/cm² 	1000		
+		1500		
Madhua		2000		
RTU RTU		2500		

Accessories TMN		Price
(Output with M12 connector	
Π	KNT8: Module for RS485 Modbus RTU communication	

Produc	cts related with MAGNETIC TRANSDUCERS	Page
	Current relays for 4-20mA loop: SAJ, SAJA/B, SAKA	124
	Protector against atmospheric discharges for 4-20mA loop: PS-4	140
	Board instrument of digital display: IPD	142

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Application • They are used to obtain a continuous reading of liquid level.
• When the float rises or falls due to the action of the liquid, are activated or deactivated respectively a series of reed switches that generate an output proportional to the height of the level.

- Common data · Output type: Resistive. 100 ohms/reading
 - · Distance between contacts: 10 mm. Optional 5 mm.
 - · Protection: IP67

TRR TC INOX - Process connection: Top screw. 2" G. SS AISI316 (1.4401) - Electrical connection: Connector DIN43650 - Repair Loylindrical s252.52 mm. SS AISI316 (1.4401) - Float: Cylindrical s252.52 mm. SS AISI316 (1.4401) - Temperature: 2-0.+100 °C - Pressure: 30 kptcm² - TMR TB INOX - Process connection: Top screw. 2" G. SS AISI316 (1.4401) - Process connection: Top screw. 2" G. SS AISI316 (1.4401) - Reparature: 20.+100 °C - Pressure: 30 kptcm² - Reparature: 20.+100 °C - Pressure: 30 kptcm² - Reparature: 20.+100 °C - Pressure: 30 kptcm² - Reparature: 20.+100 °C - Pressure: 3 kptcm² - Reparature: 20.+100 °C - Pressure: 30 kptcm² - Reparatur	Image	Reference / Description	Length	Step 5	Step 10
Electrical connection: Connector DIN43650 10000 15000	_	TMR TC INOX	150		
- Lengit: 150.2500 mm Float: Cylindrical 95282 mm. SS AISI316 (1.4401) Temperature: 20.4100 °C Pressure: 30 kg/cm² Process connection: Top screw, 2° G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Lengit: 150.2500 mm Float: Cylindrical 952852 mm. SS AISI316 (1.4401) Float: Cylindrical 952852 mm. SS AISI316 (1.4401) Freessure: 30 kg/cm² Pressure: 3 kg/cm² Pressure: 10.480 °C Pressure: 3 kg/cm² Pressure: 10.480 °C Pressure: 3 kg/cm² Pressure: 3 kg/cm² Pressure: 10.480 °C Pressure: 3 kg/cm² Pressure: 10.480 °C Pressure: 10.480 °C Pressure: 10.480 °C Pressure: 10.480 °C Pressure: 30 kg/cm² .	-	Process connection: Top screw. 2" G. SS AISI316 (1.4401)	500		
Temperature: 20, +100 °C Pressure: 30 kg/cm² 2000 2500		· Length: 1502500 mm	1000		
Pressure: 30 kg/cm² 2000 2500	4	Float: Cylindrical ø52x52 mm. SS AlSl316 (1.4401)	1500		
TMR TB INOX - Process connection: Top screw. 2' G. SS AlSi316 (1.4401) - Electrical connection- Connection housing. PBT - Length: 150, 2500 mm - Float: Cylindrical e52x52 mm. SS AlSi316 (1.4401) - Floats: Cylindrical e52x52 mm. SS AlSi316 (1.4401) - Fressure: 30 kg/cm² - Process connection: Top screw. 2' G. PP - Electrical connection: Connector DIN43650 - Float: Cylindrical e52x50 mm. PA - Tamperature: -10, -400 °C - Pressure: 3 kg/cm² - Process connection: Top screw. 2' G. PP - Electrical connection: Connector DIN43650 - Float: Cylindrical e52x50 mm. PA - Tamperature: -10, -400 °C - Pressure: 3 kg/cm² - Process connection: Top screw. 2' G. PP - Electrical connection: Connector DIN43650 mm. PA - Process connection: Top screw. 2' G. PP - Electrical connection: Connection housing. PBT - Length: 150, 2500 mm, tube SS AlSi316 (1.4401) - Float: Cylindrical e52x50 mm. PA - Temperature: -10, -400 °C - Pressure: 3 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -10, -400 °C - Pressure: 3 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: 30 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: 30 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: -30 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: -30 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: -30 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: -30 kg/cm² - Process connection: Flange Clamp. 2'1/2 G. SS AlSi316 (1.4401) - Temperature: -20, -100 °C - Pressure: -30 kg/cm² - Processure: -	U		2000		
Process connection: Top screw. 2' G. SS AISI316 (1.4401)			2500		
Electrical connection: Connection housing. PBT Length: 150. 2500 mm		TMR TB INOX	150		
Length: 150.2500 mm		· Process connection: Top screw. 2" G. SS AISI316 (1.4401)	500		
Float: Cylindrical s62x62 mm. SS AlSI316 (1.4401) 1500 2000 2000 2500	15		1000		
Pressure: 30 kg/cm² TMR TC PP INOX PA Process connection: Top screw. 2" G, PP Electrical connection: Connector DIN43850 Length: 150. 2500 mm, tube SS AISI316 (1.4401) Plotat: Cylindrical a25x52 mm. SS AISI316 (1.4401) TMR TB PP INOX PA Process connection: Top screw. 2" G, PP Electrical connection: Top screw. 2" G, PP Electrical connection: Top screw. 2" G, PP Electrical connection: Connection housing. PBT Length: 150. 2500 mm, tube SS AISI316 (1.4401) Process connection: Top screw. 2" G, PP Electrical connection: Connection housing. PBT Length: 150. 2500 mm, tube SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Process connection: Connection housing. PBT Length: 150. 2500 mm Process connection: Connection housing. PBT Length: 150. 2500 mm Process connection: Connection housing. PBT Process	4	· Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401)	1500		
TMR TC PP INOX PA Process connection: Top screw. 2° G. PP Electrical connection: Connector DIN43650 Length: 1502500 mm, tube SS AISI316 (1.4401) Float: Cylindrical 229x50 mm. PA Process connection: Top screw. 2° G. PP Pressure: 3 kg/cm² TMR TB PP INOX PA Process connection: Top screw. 2° G. PP Electrical connection: Connection housing. PBT Length: 1502500 mm, tube SS AISI316 (1.4401) Float: Cylindrical 29x50 mm. PA Temperature: 10+80 °C Pressure: 3 kg/cm² TMR CC INOX Process connection: Flange Clamp. 2°1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 1502500 mm Float: Cylindrical 29x5x2 mm. SS AISI316 (1.4401) Float: Cylindrical 29x5x2 mm. SS AISI316 (1.4401) Fressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2°1/2 G. SS AISI316 (1.4401) Fressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2°1/2 G. SS AISI316 (1.4401) Fressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2°1/2 G. SS AISI316 (1.4401) Fressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2°1/2 G. SS AISI316 (1.4401) Fressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2°1/2 G. SS AISI316 (1.4401) Float: Cylindrical 25x5c mm. SS AISI316 (1.4401)	83		2000		
Process connection: Top screw. 2" G. PP	Y		2500		
Process connection: Top screw. 2" G. PP		TMR TC PP INOX PA	150		
Length: 150.2500 mm, tube SS AISI316 (1.4401) 1500 1		· Process connection: Top screw. 2" G. PP	500		
Float: Cylindrical a29x50 mm. PA Temperature: -10+80 °C Pressure: 3 kg/cm² TMR TB PP INOX PA Process connection: Top screw. 2" G. PP Electrical connection: Connection housing. PBT Length: 1502500 mm, tube SS AISI316 (1.4401) Float: Cylindrical a29x50 mm. PA Temperature: -10+80 °C Pressure: 3 kg/cm² TMR CC INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 1502500 mm Float: Cylindrical a52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Float: Cylindrical a52x52 mm. SS AISI316 (1.4401) Fleat: Cylindrical a52x52 mm. SS AISI316 (1.4401) Fleat: Cylindrical a52x52 mm. SS AISI316 (1.4401) Float: Cylindrical a52x52 mm. SS AISI316 (1.4401)	7		1000		
Pressure: 3 kg/cm² 2000 2500	4	Float: Cylindrical ø29x50 mm. PA	1500		
TMR TB PP INOX PA Process connection: Top screw. 2" G. PP Electrical connection: Connection housing. PBT Length: 1502500 mm, tube SS AISI316 (1.4401) Float: Cylindrical #29x50 mm. PA Temperature: -10+80 °C Pressure: 3 kg/cm² TMR CC INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 1502500 mm Float: Cylindrical #52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical #252x52 mm. SS AISI316 (1.4401) Float: Cy	I	· Temperature: -10+80 °C · Pressure: 3 kg/cm²	2000		
Process connection: Top screw. 2" G. PP			2500		
Process connection: Top screw. 2" G. PP		TMR TB PP INOX PA	150		
Length: 150. 2500 mm, tube SS AISI316 (1.4401) Float: Cylindrical ø29x50 mm. PA Temperature: -10+80 °C Pressure: 3 kg/cm² TMR CC INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 150. 2500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Electrical connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 2000 2500			500		
Float: Cylindrical ø29x50 mm. PA Temperature: -10+80 °C 2000 2500 2	-	Electrical connection: Connection housing. PBT Length: 1502500 mm, tube SS AISI316 (1.4401) Float: Cylindrical ø29x50 mm. PA Temperature: -10+80 °C	1000		
Pressure: 3 kg/cm² TMR CC INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 2000 1500 1500 1500 1500 1500 1500 1	4		1500		
TMR CC INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 150.2500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 150.2500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm²	Ü		2000		
Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² Process connection: 2"1/2 G. SS AISI316 (1.4401) Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm²			2500		
Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Connexion electrical: Connector DIN43650 Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² Process connection: 2"1/2 G. SS AISI316 (1.4401) Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm²		TMR CC INOX	150		
Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AlSl316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AlSl316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AlSl316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm²		· Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401)	500		
Float: Cylindrical ø52x52 mm. SS AlSl316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AlSl316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AlSl316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 1500 1500 1500 1000 1500 2000	7		1000		
Pressure: 30 kg/cm² TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² PTMR CB INOX 150 1500 1500 2000	I	· Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401)	1500		
TMR CB INOX Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 150 1000 1500 2000	II		2000		
Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 500 1000 1500 2000	R		2500		
Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401) Electrical connection: Connection housing. PBT Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 500 1000 1500 2000		TMR CB INOX	150		
Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 1000 1500 2000 2000		· Process connection: Flange Clamp. 2"1/2 G. SS AISI316 (1.4401)	500		
• Float: Cylindrical ø52x52 mm. SS AlSl316 (1.4401) • Temperature: -20+100 °C • Pressure: 30 kg/cm² 1500 2000	1	Electrical connection: Connection housing. PBT	1000		
Pressure: 30 kg/cm ² 2000	T	Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401)	1500		
2500	n		2000		
	4		2500		

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Image	Reference / Description	Length	Step 5	Step 10
	TMN TBEX INOX	150		
	Process connection: Top screw. 2" G. SS AISI316 (1.4401)	500		
99	 Electrical connection: Connection housing. EEx d IIC T6. Aluminium Length: 1502500 mm 	1000		
	· Float: Cylindrical ø52x52 mm. SS AISI316 (1.4401) · Temperature: -20+100 °C	1500		
0	Pressure: 30 kg/cm²	2000		
8		2500		
-	TMN DBEX INOX	150		
	Process connection: Flange DIN. DN 25DN 100. SS AlSI316 (1.4401) Electrical connection: Connection housing. EEx d IIC T6. Aluminium Length: 1502500 mm Float: Cylindrical ø52x52 mm. SS AlSI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm²	500		
		1000		
		1500		
0		2000		
8		2500		
	TMN DBREX INOX	2500		
	Process connection: Flange DIN. DN 100. SS AISI316 (1.4401)	3000		
	 Electrical connection: Connection housing. EEx d IIC T6. Aluminium Length: 1502500 mm 	3500		
	 Float: Spherical Ø95 mm. SS AISI316 (1.4401) Temperature: -20+100 °C Pressure: 30 kg/cm² 	4000		
		4500		
8		5000		

Products related with Ex MAGNETIC TRANSDUCERS	Page
Galvanic isolator for 4-20mA signals: AG-5104-B	143
Board instrument of digital display: IPDS	142
[Safe Area] Current relays for 4-20 mA loop: SAJ, SAKHA/B, SAKA	124
[Safe Area] Current relays for DC: SAB, PABA/B, DABA/B, SABA/B, PAFA, DAFA, SAF	A 122123
[Safe area] Board instrument of digital display: IPDS	142

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Application • Converts wind speed into an electrical signal. • Works in combination with SHG and SHGA relays.

Image Reference / Description Price **SVR 50**



Measuring range: 2..55 m/s
 Output/Resolution: 0..210 Hz, 55 m/s / 0.26 m
 Electrical connection: cable (3 x 0.5 mm ², 20m)
 Contact class: 5..15 VDC, maximum 0,015A
 Temperature: -20..+80 °C
 Protection: IP65

Products related with ANEMOMETERS	Page
Relays for anemometers: PHGA, SHG	98

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Application

Connected to the appropriate anemometer, they read and control the wind speed

Some typical applications are: indication and alarm for excess wind in protection of cranes, awnings, public sources, etc.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
	Special tachometric relay for anemometers Control and visualization of the wind speed.									YYY SHG
	Control of bursts: are common applications							024 110		
******	controlling awnings, ornamental fountains.	CUC				•	00	230		
		SHG	9	3	Α	0	00	400 440		
			*[Q-U]	*[0-1-2]	*[0-C]	*[4-3-8]		903 904		

Image	Description	Model	Voltage	Range		
	Control of wind speed in cranes Independent relays for 50 and 70 km/h Detection delay adjustable from 030 S Sensor: Anemometers SVR 50	PHGA	U24 724 024 048 110 230 400		Y' Y' PHGA	

Products related with RELAYS FOR ANEMOMETERS	Page
Anemometers for the control of the speed of the wind: SVR	97

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- Application They are used to control conductive liquids in all types of reservoirs, wells, ponds, etc. The models differ by combinations of the following characteristics:
 - - · Range of sensitivity.
 - · Modality of control.
 - · Quantity and type of output contacts.

- Common data Should be connected to any type of conductive electrode.
 DISIBEINT is not responsible of the behavior of these relays when connected to sensors from other manufacturers.

	T		1 1 1 1 1 1 1 1 1 1							
Image	Description	Model	Voltage	Range]		
_	· Maximum and/or minimum level control				L,	\ <u>\</u>	DNIC A		CNICA	
	 General application Sensitivity: 10100Kohms Voltage/Current (probes): 24 VAC/4 mA 	PNSA DNSA SNSA	024 110 230 400 440	100	PN	ISA	DNSA	A .	SNSA	
	Combined control of phase failure and maximum				L,	\ <u>\</u>	5			
	and/or minimum level Sensitivity: 10100Kohms Voltage/Current (probes): 24 VAC/4 mA	PNFA DNFA	380 400 415 440	100	PN	IFA	DNFA	1		
	· Supply voltage DC or AC				Y PNCA	PNCB	DNCA D	NCB		
	 Double relay contact Maximum and/or minimum level control Sensitivity: 845 Kohms Voltage/Current (probes): 6,2 VCA/3,2 mA 	PNCA PNCB DNCA DNCB	712 724 024 110 230 400 440 901 902	45K			DION B			
					 		<u> </u>			
- 4	· For high resistivity liquids: destilled waters,				PN	ì IEA	DNEA	١		
	demineralized Maximum and/or minimum level Two sensitivity ranges: 10100 Kohms / 200 Kohms4,7 Mohms	PNEA DNEA	024 230	100 4M7						
	· Voltage/Current (probes): 24 VAC/4 mA									
	· Automatic control for well and tank				PN	Ϋ́ IDA	DNDA	4		
	 Sensitivity: 10100Kohms Voltage/Current (probes): 24 VAC/4 mA 	PNDA DNDA	024 048 110 230 400	100						
	Double level control				Υ'		\ \ \			
	 Two independent level controls Contacts NO Maximum and/or minimum level Sensitivity: 10100Kohms Voltage/Current (probes): 24 VAC/4 mA 	PNGA DNGA	024 048 110 230 400	100	PN	GA	DNGA	A		
	· Double level control					\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			_
	 Two independent level controls Contacts NC Maximum and/or minimum level Sensitivity: 10100Kohms Voltage/Current (probes): 24 VAC/4 mA 	PNHA DNHA	024 048 110 230 400	100	PN	ПА	DINHA	1		

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Image	Description	Model	Voltage	Range		
	· Two independent level controls					SNDA
· ·	 Contacts NO/NC Maximum and/or minimum level Sensitivity: 10100Kohms Voltage/Current (probes): 24 VAC/4 mA 	SNDA	024 048 110 230 400	100		
_	· Control of 3 independent levels, belonging to the					\\\ SNZA
	same tank or not Several application possibilities Independent adjustments for each relay Function Max-Min or Set-Point Delay at level detection: 010s Sensitivity: 10100Kohms Voltage/Current (probes): 5 VCA/4 mA	SNZA	724 024 048 110 230 400 901 902	100		UNEA
	· Three independent level controls				\\\\\ MNZA	
	 Contacts NO/NC Maximum and/or minimum level Without housing. Directa assembly to DIN rail Sensitivity: 10150 Kohms Voltage/Current (probes): 24 VAC/4 mA 	MNZA	024 048 110 230 400	150		

Produ	cts related with LEVEL RELAYS FOR CONDUCTIVE LIQUIDS	Page
	Conductive electrodes, with top screw	2021
	Conductive electrodes, with flange	2829
	Conductive electrodes, other means	30

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Application • They are used to control and/or display of five independent level points.

Common data · Visualization of the status of each level point by means of a column of leds. · Sensitivity: 10..100 Kohm

· Probe voltage: 6.2 VAC · Current in probes: 3.2 mA

Image	Description	Model	Voltage	Range		
VV	Relays for conductive liquids level Alarm and display		U24		1	SNNA
····	 Manual reset Control 5 independent alarm points Sensitivity: 10100 Kohms Voltage/Current (probes): 6,2 VAC/3,2 mA 	SNNA	724 024 048 110 230 400	100		
	· Level relays for conductive liquids					YINIP

· Alarm and visualization U24 · Without output relay 724 · Sensibility: 10..100 Kohms 024 · Voltage/Current (probes): 6,2 VAC/3,2 mA SNNY 100 048 110 230 400

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Application • The multi-point level relays are responsible for implementing level control operations in accordance with the signal emitted by a sensor IMN MPS in which are installed, according to the function to perform, various detector modules MPS05 or MPS80.

Common data · It is essential to the use of sensors IMN MPS.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
······································	Level control with 180 set points Sensor is combined with IMN MPS							004		YYY SNI
	Functions configurable by the user Three independent NO relays Direct reading in units of capacity or volume Timing 0,01 S999,9 H Three relay outputs LCD graphic screen	SNI	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	80N	

Image	Description	Model	Voltage	Range		
water 13	Level control with 15 set points It uses the detector module MPS-05					YYY SNIA
******	 Functions: Filling, emptying, set-point Three independent NO relays Visualization of the level by means of 5 yellow leds Delay on operate/release. Adjustable 030 s 	SNIA	U24 724 024 048 110 230 400	5N		

Products related with MULTIPOINT LEVEL RELAYS	Page
Multipoint level sensors: IMN MPS	87
	•
Accessories DIGITAL RELAYS	Price
*(4) Extension to output 4-20 mA	
*(3) Extension to output RS232	
*(8) Extension to output RS485	

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Application • Amplifiers for capacitive sensors.

Common data • They only work with capacitive sensors of the type SCSx or SCRx.
• DISIBEINT is not responsible for the behavior of these relays if they are connected to sensors of other brands.

Image	Description	Model	Voltage	Range][]	
	Amplifier relay for capacitive sensors For sensors with references SCSx or SCRx Maximum and/or minimum level control Adjust the sensor sensitivity Voltage/Current (probes: 24 VDC/15 mA)	PNAS PNAT DNAS DNAT	U24 724 024 048 110 230 400 901 902		PNAS	Y-LY PNAT	DNAS	DNAT	

Produc	cts related with LEVEL RELAYS FOR SOLIDS	Page
	Capacitive sensors	45

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TIMERS



Application • When connecting the power supply the relay remains deactivated and the time circuit starts up. After preset time the relay is activated. It can remain in this state indefinitely.

Image	Description	Model	Voltage	Range][
	Ranges: 0,03 S180 M Supply voltage: VAC, VDC or VAC/DC	PTCA PTCB DTCA DTCB	U24 724 024 110 230 400 440	3S 15S 30S 1M 2M 3M 5M 10M 15M 30M	Y PTCA	PTCB	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DTCB	YL-J
				2H 3H					



- · Adjustable by remote potentiometer
- Ranges: 0,03 S..180 M
 Supply voltage: VCA, VCC or VCA/CC

			- 5	44	5	44
			PTCG	PTCH	DTCG	DTCH
PTCG PTCH DTCG DTCH	U24 724 024 110 230 400 440	3S 15S 30S 1M 2M 3M 5M 10M 15M 30M 1H 2H 3H				

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Application • By connecting the supply voltage the relay will be activated immediately. After the preset time has elapsed the relay is deactivated. It can remain in this state indefinitely.

Image	Description	Model	Voltage	Range]	
N. Carlo	Ranges: 0,03 S180 M Supply voltage: VAC, VDC, VAC/DC	PTIA PTIB DTIA DTIB	U24 724 024 110 230 400	3S 15S 30S 1M 2M 3M 5M 10M	Y PTIA	PTIB	Y DTIA	DTIB	42
			440	30M 1H 2H 3H					



- · Adjustable by potentiometer remote · Ranges: 0,03 S..180 M · Supply voltage: VAC, VDC, VAC/DC

			- 5	44	<i>'</i>	44	
			PTIG	PTIH	DTIG	DTIH	
PTIG PTIH DTIG DTIH	U24 724 024 110 230 400 440	3S 15S 30S 1M 2M 3M 5M 10M 15M 30M 1H 2H 3H					





- \cdot Control by external contact, sensor NPN or PNP
- · Multirange: 0,01 S..100 H
- Supply voltage: VAC, VDC, VAC/CC

			5	4.4	Υ'	44
			PTEA	PTEB	DTEA	DTEB
PTEA PTEB DTEA DTEB	U24 724 024 110 230 400 440	100				
	901					
	902		1	l		

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Application • The relay switches cyclically according to time adjusted, in identical intervals both for the OFF time and for the ON one. Starter can be programmed OFF-ON or ON-OFF. The cycle is repeated continuously until power supply is disconnected.

Common data · <i>Multi-range</i>: From 0,01 S up to 100 H selectable 8-position rotary switch.

Image	Description		Voltage	Range		
	Equal adjustment OFF/ON Top cycle through OFF or ON		1124		PTWA PTW	
	Multirange: 0,01 S100 H Supply voltage: VAC or VDC	PTWA PTWB DTWA DTWB	U24 724 024 110 230 400 440 901 902	100		

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Application • The relay switches cyclically according to time adjusted in the two separate time circuits, one for OFF and one for ON. Starter can be programmed OFF-ON or ON-OFF. The cycle is repeated continuously until power supply is disconnected.

Image	Description	Model	Voltage	Range		[]	ر []
	Times independent adjustment OFF/ON Tag such through OFF as ON.				PTAA PTAE	TAA DTAB	42
	 Top cycle through OFF or ON Multirange: 0,01 S100 H Supply voltage: VAC or VDC 	PTAA PTAB DTAA DTAB	U24 724 024 110 230 400 440 901 902	100			
	· Times independent adjustment OFF/ON				PTJA PTJB	TJA DTJB	
I I	 Top cycle through OFF or ON Multigama: 0.01 S100 H Multivoltage: 24240 VAC/DC 	PTJA PTJB DTJA DTJB	U40	100			
	· Times independent adjustment OFF/ON				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	L' DTSA	
	Top cycle through OFF or ON Multirange: 0,01 S100 H Start-up by external input	PTSA DTSA	U24 724 024 110 230 400 440 901 902	100	FISA	DISA	
_	· Adjustment with remote potentiometer				L'\ PTAG	L'\ DTAG	
	Multirange: 0,01 S100 H Multivoltage: 24240 VAC/DC	PTAG DTAG	U24 724 024 110 230 400 440 901 902	100	1170	5110	
	· Proportional asymmetrical timer				Y Y.S	TY Y-Y DTUB	
T A	 Proportional adjustment of the time Multirange: 0,1 S192 H Multivoltage: 24240 VAC/DC 	PTUA PTUB DTUA DTUB	U40	192	100	510/1 5108	



- Application 10 or 12 functions selectable by rotary switch, according to model:
 - Delay on operate
 - Interval on operate

 - Delay on operate with time storage, without memoryDelay on operate by external input, when activate
 - Delay on operate by external input, when deactivate
 - Delay on operate by external input, when activate or deactivate
 Delay on operate with time storage, with memory

 - Interval on operate by external input, when activate
 - Interval on operate by external input, when deactivate
 - Interval on operate by external input, when activate or deactivate

Common data Multi-range:

·	[100]: From 0,01 S up to 100 H selectable by 8-position rotary	switch.							
Image	Description	Model	Voltage	Range][(]
	· Multifunction: Delay on operate, Interval on			Y PTMA	Y-Y PTMB	\ \ DTMA	DTMB		
	operate,Clutch. · Start by external input, sensor NPN or PNP · Multirange: 0,01 S100 H · Supply voltage: VAC, VDC, VAC/DC	PTMA PTMB DTMA DTMB	U24 724 024 110 230 400 440 901 902	100					
	. Multifunction: Connection Interval Clutch				L	Υ'	4	'	
	 Multifunction: Connection, Interval, Clutch, Start by external contact, sensor NPN or PNP Adjustable by remote potentiometer Multirange: 0,01 S100 H Supply voltage: VAC, VDC, VAC/DC 	PTMG DTMG	U24 724 024 110 230 400 440 901 902	100	PT	MG	DTI	MG	
	· Multifunction: Connection, Interval, Clutch				۲ <mark>۲</mark>	Y-Y PTZB	الا DTZA	L', L', DTZB	
	 Manual starter by external contact Multirange: 0,01 S100 H Multivoltage: 24240 VAC/DC 	PTZA PTZB DTZA DTZB	U40	100		, ,	2.2.	3.23	
	Multifunction: Connection, Interval, Clutch Start by external contact, sensor NPN or PNP Instant activation relay		U24 724		PTNA	Y-Y PTNB	J' DTNA	DTNB	



- · Multirange: 0.01 S..100 H
- · Supply voltage: VAC, VDC, VAC/DC

PTNA PTNB DTNA DTNB U24 724 PTNA 024 PTNB 110 PTNB 110 DTNA 230 100	U24 724 PTNA 024 PTNB 110 PTNB 230 100
724 PTNA 024 PTNB 110 PTNB 230 100	724 PTNA 024 PTNB 110 PTNB 230 100 DTNA 400
IDINE I I I I I	004

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Application
- By connecting the supply voltage, the relay is activated. When disconnecting the supply voltage while the circuit is started and after the preset time the relay is deactivated.

If the supply voltage is applied again before the time has elapsed, the circuit resets time and the relay remains activated.

Image	Description Model Voltage Range									
	· Delay off voltage				Y PTRA	Y-Y PTRB	낙 DTRA	المالية DTRB	STRA	STRB
Ranges: 0,15 S30 M Supply voltage: VAC, VDC, VAC/DC		PTRA PTRB	U24 724 024 110	16 M						
		DTRA DTRB STRA STRB	230 400 440	8H						
				16M						
		902	8H							

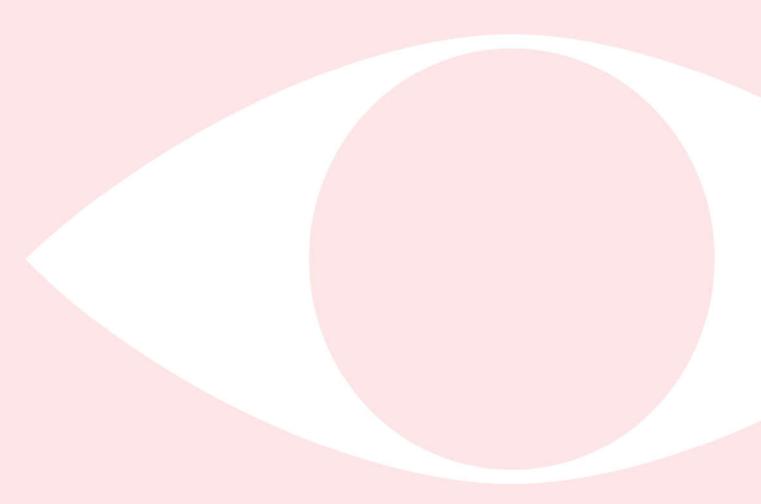
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Application • See the specific description of each model.

.	For further information, see "Operating Principle" in the techni-	cal documen	tation of the	selected r	model.		
Image	Description	Model	Voltage	Range			
	· Star-delta				\ <u>\</u>	\ <u>'</u>	
THE WO	· Ranges: 0,160 S		U24		PTHA	DTHA	
	· Supply voltage: VAC, VDC, VAC/DC		724				
24			024				
		РТНА	110				
		DTHA	230	1M			
			400 440				
			901				
			902				
					ال ال		
-	Starting-up generators				Y Y PTGA		
	Multirange: 0,1 S192 H Supply voltage: 12 or 24 VDC	PTGA	712	192			
-			724			J	
	· Delay on operate and on release				۲'	۲'	
100	Operated by external contact		U24		PTPA	DTPA	
	· Multirange : 0,1 S192 H		724				
AA	· Supply voltage: VAC, VDC, VAC/DC		024				
		PTPA	110				
		DTPA	230	192			
			400 440				
			901				
			902				
					ų.	Υ	
4 4	Cyclical timer with intermediate pause Multirange: 0,01 S100 H				PTTA	DTTA	
- XY	· Supply voltage: VAC, VDC, VAC/DC		U24				
	cupply voltages vito, viio, vi		724 024				
_ / 244./			110				
		PTTA DTTA	230	100			
		DITA	400				
			901				
			902				
	One shot relay or pulse relay				PTFS PTFT	DTFS DTFT	
- V	Three operating modes: Delay on operate, on release or both		U24				
-	· Fixed time: 0,5 S		724				
200	· Supply voltage: VAC, VDC, VAC/DC	PTFS	024 110				
		PTFT	230				
		DTFS DTFT	400				
		DIFI	440				
			901 902				
			902	I			

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CONTROL RELAYS



- Application They control a voltage range in AC voltage between the adjusted margins. When conditions are right, the relay remains activated and it deactivates when the current is shifted out of these margins.
 - · The models are distinguished by combinations of the following characteristics:
 - Control of the own supply voltage or a secondary voltage
 - Control 1, 2 or 3 set points
 - Fixed or adjustable hysteresis
 - Timing detection fixed or adjustable
 - Display of measured values

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
in the second	Controller of AC single-phase voltage Measures its own supply voltage							024		SVA
******	 Regulation: ±18% of the nominal value Frequency control: 4370 Hz DC component control: 03 VDC Timing 0,01 S999,9 H 	SVA	9	3	A	0	00	110 230 400 440		
	Several configurable parameters Three configurable output relays LCD graphic screen		*[Q-U]	*[0-1-2]	*[0-C]	*[4-3-8]		903 904		

Image	Description Model Voltage Rang][
-4-	· It controls a secundary voltage				Y PVHA	اراً. PVHB	J' DVHA	DVHB	SVHA	SVHB
	 Relay for maximum or minimum voltage Rank: 0,4500 VAC in 5 ranges Regulation: According to the ajdusted value Hysteresis: 330% Timing: 030 s 	PVHA PVHB DVHA DVHB SVHA SVHB	U24 110 230 400 440 901 902	4V 20V 50V 200 500						



- \cdot Relay for maximum, minimum or threshold voltage
- Controls a secondary voltage
- · Rank: 16,8..520 VCA in 4 ranges
- · Regulation: ±30% on the nominal voltage
- · Hysteresis: 1%, fix · Timing: 0..30 s

			PVBA	PVBB	DVBA	DVBB	SVBA	SVBB
PVBA PVBB DVBA DVBB SVBA	U24 110 230 400 440	24V 110 230 400						
SVBB	901 902	400						



- · It controls a secundary voltage
- · Two independent set points
- Rank: 0,4..500 VAC in 5 ranges
- · Regulation: According to the ajdusted value
- · Hysteresis: 10%, fix

			PVJA	DVJA	SVJA		
	U24						
	110	4V					
PVJA	230	20V					
DVJA	400	50V					
SVJA	440	200					
	901	500					
	902						



- · Relay for maximum, minimum or threshold voltage
- · Controls the own supply voltage
- Regulation: ±18% on the nominal voltage
- · Hysteresis: 1%, fix
- Timing: 0..30 s

PVAA	
PVAB	024
DVAA	110
DVAB	230
SVAA	400
SVAB	

5	44	5	44	5	44
PVAA	PVAB	DVAA	DVAB	SVAA	SVAB

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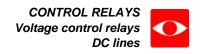


Image	Description	Model	Voltage	Range			
111	Two independent set points Controls the own supply voltage		004	l	Y'Y' PVLA	⅓'⅓' DVLA	SVLA
	Regulation: ±18% on the nominal voltage Hysteresis: 1%, fix		024 110 230 400				
100	Threshold voltage relay Fixed set points: minimum 172VAC, maximum 260VAC Delay on detection, fixed of 3 s	PVSS PVST DVSS DVST	230		PVSS PVST	DVSS DVST	
1	Automatic voltage Discriminator voltage for portable equipments Trip point, 286 V Delay on detection, fixed of 1 s	PVZS	230	400	Y PVZS		

Acces	sories DIGITAL RELAYS	Price
	*(4) Extension to output 4-20 mA	
	*(3) Extension to output RS232	
	*(8) Extension to output RS485	

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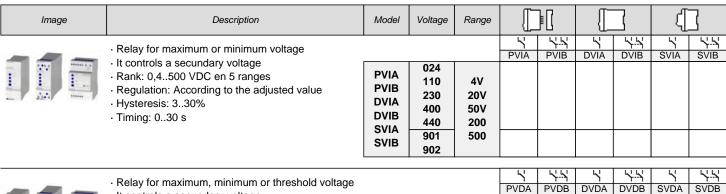


- Application · They control a voltage range in DC between the adjusted margins. When conditions are right, the relay remains activated and it deactivates when the current is shifted out of these margins.
 - · The models are distinguished by combinations of the following characteristics:
 - Control of the own supply voltage or a secondary voltage
 - Control 1, 2 or 3 set points
 - Fixed or adjustable hysteresis

· LCD graphic screen

- Timing detection fixed or adjustable
- Display of measured values

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
	· Controlador de tensión monofásica en CC									SVC
	Measures on own supply voltage							712	12V	
	Regulation: ±25% on nominal value Range: 9156 VAC to 5 ranges							903	24V	
******		SVC	9	3	Α	0	00	903	48V	
	 Timing 0,01 S999,9 H Multiple configurable parameters 		*10 111	*[0 4 0]	*[0_0]	*[4 0 0]		904	110	
	Three configurable output relays		[[Q-U]	*[0-1-2]	[U-C]	*[4-3-8]		904	125	





- · It controls a secundary voltage
- · Rank: 8,4..162,5 VDC in 5 ranges
- · Hysteresis: Fixed to 1%
- · Regulation: ±30% on nominal value
- · Timing: 0..30 S

			PVDA	PVDB	DVDA	DVDB	SVDA	SVDB
PVDA PVDB DVDA DVDB SVDA	024 110 230 400 440	12V 24V 48V 110						
SVDB	901 902	125						



- · Two independient set points
- · It controls a secundary voltage
- Rank: 0,4..500 VDC en 5 ranges
- · Regulation: According to the adjusted value
- · Hysteresis: 10% fixed

			1 1	1 1	1 1
			PVKA	DVKA	SVKA
PVKA	024 110 230	4V 20V			
		_			
DVKA	400	50V			
SVKA	440	200			
	901	500			
	902				



- · Voltage relay for maximum, minimum or threshold
- · It controls its own supply voltage
- · Rank: 9..156,5 VDC in 5 ranges
- · Regulation: ±25% of the nominal value
- · Hysteresis: 1% fixed
- · Timing: 0..30 s

			7-7		7-7	~~~		
		PVCA	PVCB	DVCA	DVCB	SVCA	SVCB	
PVCA PVCB DVCA DVCB SVCA	712	12V						
	724	24V						
	748	48V						
	901	110						
SVCB	902	125						

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Image		Description		Voltage	Range						
	- 41 -	Two independent set points It controls its own supply voltage Rank: 9156,5 VDC in 5 ranges Regulation: ±25% of the nominal value				닉닉 PVMA	`	\\\\\\ DVMA		SVMA	
			PVMA	712	12V						
				724	24V						
-	Sure min	Hysteresis: 1% fixed	DVMA	748	48V						
		· Hysteresis. 176 lixed	SVMA	901	110						
			902	125							

Acces	Accessories DIGITAL RELAYS						
	*(4) Extension to output 4-20 mA						
	*(3) Extension to output RS232						
	*(8) Extension to output RS485						

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- Application Control of a three-phase voltage range between tight margins. When conditions are right, the relay is activated and deactivated when the voltage is shifted out of these margins.
 - · The models are distinguished by combinations of the following characteristics:
 - Control of the own supply voltage or a secondary voltage
 - Control lines with or without neutral
 - Fixed or adjustable hysteresis
 - Timing detection, fixed or adjustable
 - Display of measured values

		1								
Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
_	· Control of three phase lines without neutral									SVO
	 Measure its own power supply or a secondary voltage Range: 110690 VAC in 6 ranges Voltage control, phase/phase ±18% Control of phase sequence Phase unbalance control, phase/phase Frequency control: 4370 Hz Timing 0,01 S999,9 H All input parameters are configurable Three configurable output relays LCD graphic screen 		9	3	A	0	00	024 110 230 400 440	110 230 400 440 500	3,0
			*[Q-U]	*[0-1-2]	*[0-C]	*[4-3-8]		903 904	690	
	· Control of three-phase lines with neutral									777
11111	 Measure its own power supply or a secondary voltage Range: 110690 VAC in 6 ranges Voltage control, ph/ph and ph/n Phase unbalance control, ph/ph and ph/n Frequency control: 4370 Hz Timing 0,01 S999,9 H 		9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	110 230 400 440 500 690	SVP
	 All input parameters are configurable Three configurable output relays LCD graphic screen 							-		

Relay for max., min. or threshold voltage Three-phase lines without neutral It controls its own power supply Rank: 90542 VAC in 5 ranges Regulation: ±18% on the nominal voltage, phase-phase Hysteresis: 1%, fix Timing: 030 s Relay for max., min. or threshold voltage Three-phase lines with neutral It controls its own power supply Rank: 52300 VAC in 5 ranges Regulation: ±18% on the nominal voltage, phase-phase and phase-neutral Hysteresis: 1%, fix Timing: 030 s	Image Description		Model	Voltage	Range					(I)
Relay for max., min. or threshold voltage Three-phase lines with neutral It controls its own power supply Rank: 52300 VAC in 5 ranges Regulation: ±18% on the nominal voltage, phase-phase and phase-neutral Hysteresis: 1%, fix		 Three-phase lines without neutral It controls its own power supply Rank: 90542 VAC in 5 ranges Regulation: ±18% on the nominal voltage, phase-phase Hysteresis: 1%, fix 	PVEB DVEA	230 400 415		PVEA		DVEA		
		 Three-phase lines with neutral It controls its own power supply Rank: 52300 VAC in 5 ranges Regulation: ±18% on the nominal voltage, phase-phase and phase-neutral 	PVFB DVFA	230 400 415		PVFA	1 1	DVFA	DVFB	





- · Relay for max., min. or threshold voltage
- Three-phase lines without neutral
- It controls a secondary voltage
- Rank: 90..542 VAC in 8 ranges
- · Regulation: ±18% on the nominal voltage, phase-phase
- · Hysteresis: 1%, fix
- · Timing: 0..30 s

			'	44	'	7.7
			PVOA	PVOB	DVOA	DVOB
	024	110				
	110	220				
PVOA	230	230				
PVOB	400	380				
DVOA	440	400				
DVOB	770	415				
- 1 - 1	901	440				
	902	460				
	_	700				

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Image	Description	Model	Voltage	Range			
- 4	Relay for max., min. or threshold voltage				닉 PVPA	\ DVPA	
	Three-phase lines with neutral It controls a secondary voltage Rank: 52300 VAC in 5 ranges Regulation: ±18% on the nominal voltage, phase-phase and phase-neutral Hysteresis: 1%, fix Timing: 030 s	PVPA DVPA	024 110 230 400 440 901 902	110 220 400 415 440			

Access	sories DIGITAL RELAYS	Price
	*(4) Extension to output 4-20 mA	
[*(3) Extension to output RS232	
ĺ	*(8) Extension to output RS485	

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- Application · They control a range of single-phase AC current between the adjusted margins. When conditions are right, the relay remains activated and it deactivates when the current is shifted out of these margins.
 - \cdot The models are diferencied by combinations of the following characteristics:
 - Control 1, 2 or 3 set points.
 - Fixed or adjustable hysteresis.
 - Timing detection fixed or adjustable.
 - Display of measured values.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
	Control of maximum and/or minimum current Rank: 0,04 mA10 A in 6 ranges									YYY SAA
	 Frequency control: 4370 Hz Timing 0,01 S999,9 H All input parameters are configurable Three configurable output relays LCD graphic screen 	SAA	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	2MA A02 A20 1A 5A 10A	



- · Control of the current in AC single-phase lines by means of external shunt
- Rank: 10..100 mV
- · Frequency control: 43..70 Hz
- Timing 0,01 S..999,9 H
- · All input parameters are configurable
- · Three configurable output relays
- · LCD graphic screen

								SAC	
SAC	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903	V10		
						904			

Image	Image Description Model Voltage Range								{]
	Relay for maximum or minimum current				الا PAAA	المالة PAAB	الا DAAA	المالة DAAB	SAAA	SAAB
	Rank: 0,1 mA5 A in 9 ranges Hysteresis: 330% Timing: 0, 30 s		024 110 230 400 440 901 902	1MA 5MA A02 A10 A20 A50 1A 2A 5A						
	The Code and detect at a Code				Υ.	۲	- 5	Υ	۲,	Ψ.









- · Two independent set points
- · Rank: 0,1 mA..5 A in 9 ranges
- · Hysteresis: 10% fix

			1 1	1 1	1 1
			PAEA	DAEA	SAEA
PAEA DAEA SAEA	024 110 230 400 440	1MA 5MA A02 A10 A20 A50			
	901 902	1A 2A 5A			



- · Relay for maximum or minimum current by means of external shunt
- Rank: 5..150 mV in 4 ranges
- · Hysteresis: 3..30%
- · Timing: 0..30 s

			7	44	5	44	5	7.5
			PACA	PACB	DACA	DACB	SACA	SACB
PACA PACB DACA DACB SACA	024 110 230 400 440	V05 V06 V10 V15						
SACB	901 902	V13						

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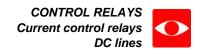


Image	Description	Model	Voltage	Range			
	Relay for maximum or minimum current by means of external shunt				눅눅 PAGA	눅눅 DAGA	۲۲۲ SAGA
	Two independent set points Rank: 5150 mV in 4 ranges Hysteresis: 10% fix	PAGA DAGA SAGA	024 110 230 400 440 901 902	V05 V06 V10 V15			

Acces	sories DIGITAL RELAYS	Price
	*(4) Extension to output 4-20 mA	
	*(3) Extension to output RS232	
	*(8) Extension to output RS485	

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- Application · Control a range of DC current between the adjusted margins. When conditions are right, the relay is activated and it deactivates when the current is shifted out of these margins.
 - · The models are distinguished by combinations of the following characteristics:
 - Control 1, 2 or 3 set points.
 - Fixed or adjustable hysteresis.
 - Timing detection, fixed or adjustable.
 - Display of measured values.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
······································	Control of the current in DC lines Rank: 0,04 mA10 A in 6 ranges							004		SAB
	Timing 0,01 S999,9 H All input parameters are configurable Three configurable output relays LCD graphic screen	SAB	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	2MA A02 A20 1A 5A 10A	



- · Control of the current in DC lines by means of external shunt
- · Rank: 10..100 mV
- · Timing 0,01 S..999,9 H
- · All input parameters are configurable
- · Three configurable output relays
- · LCD graphic screen

								333
								SAD
						024		
						110		
						230		
SAD	9	3	Α	0	00	400	V10	
	•					440		
	*[Q-U]	*[0-1-2]	*[0-C]	*[4-3-8]		903		
						904		

Image	Description	Description Model Voltage Range								
	Relay for maximum or minimum current				Y PABA	Y-Y PABB	片 DABA	나노 DABB	SABA	SABB
	 Rank: 0,1 mA5 A in 9 ranges Hysteresis: 330% Timing: 030 s 	PABA PABB DABA DABB SABA SABB	024 110 230 400 440 901 902	1MA 5MA A02 A10 A20 A50 1A 2A 5A						





- · Two independent set points
- · Rank: 0,1 mA..5 A in 9 ranges
- · Hysteresis: 10% fix

			44	44	55
			PAFA	DAFA	SAFA
PAFA DAFA SAFA	024 110 230 400 440	1MA 5MA A02 A10 A20 A50			
	901 902	1A 2A 5A			



- · Relay for maximum or minimum current by means of external shunt
- Rank: 5..150 mV in 4 ranges
- · Hysteresis: 3..30%
- · Timing: 0..30 s

				~~		- "S		~	\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-
				PADA	PADB	DADA	DADB	SADA	SADB
PAD PAD DAD DAD	DB DA DB	024 110 230 400 440	V05 V06 V10 V15						
SAD		901 902	V13						

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Image	Description	Model	Voltage	Range			
	Relay for maximum or minimum current				낙낙 PAHA	눅눅 DAHA	\'\\ SAHA
	by means of external shunt Two independent set points Rank: 5150 mV in 4 ranges Hysteresis: 10% fix	PAHA DAHA SAHA	024 110 230 400 440 901 902	V05 V06 V10 V15			

Accessories DIGITAL RELAYS	Price
*(4) Extension to output 4-20 mA	
*(3) Extension to output RS232	
*(8) Extension to output RS485	

Produc	ts related with DC CURRENT RELAYS	Page
	Surface pressure sensors: TPSP	3841
	Submersible pressure sensors: TPSM	4243
	Level magnetic transducers: TMN	9394

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- Application Control a range of current of 4..20 mA DC between the adjusted margins. When conditions are right, the relay is activated and it deactivates when the current is shifted out of these margins.
 - · The models are distinguished by combinations of the following characteristics:
 - Control 1, 2 or 3 set points.
 - Fixed or adjustable hysteresis.
 - Timing detection, fixed or adjustable.
 - Display of measured values.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range		
	· Controller of a 4-20 mA loop current with loop										
	supply and visualization Three independent set-points Timing 0,01 S999,9 H Multiple configurable parameters Three configurable output relays LCD graphic screen	SAJ	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	A02		

Image	Description	Model	Voltage	Range		
	 Output to 15 VDC loop power Range: 220 mA One set point Hysteresis: 10% Timing: 030 S 	SAJA SAJB	024 110 230 400 440	A02		SAJA SAJB
******	Output to 15 VDC loop power Range: 220 mA Two independent set points Hysteresis: 10%	SAKA	024 110 230 400 440 901	A02		SAKA

902

Accessories DIGITAL RELAYS	Price
*(4) Extension to output 4-20 mA	57.86
*(3) Extension to output RS232	56.79
*(8) Extension to output RS485	61.62

Produ	cts related with RELAYS TO 4-20 mA LOOP	Page
	Surface pressure sensors: TPSP	3841
	Submersible pressure sensors: TPSM	4243
	Magnetic level transducers: TMN	9394

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- Application They are used to monitor the status of phase voltage lines without neutral.
 - When conditions are right, the relay remains activated and deactivates at the detection of any fault.
 - Depending on model, they can control: order of the phases, failure of any phase, imbalance between phases, rotation angle.

- Common data · They do not need auxiliary power supply since they feed itself from the three-phase line.
 - · Independent models for lines of 50Hz or 60Hz.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range		
	Control of three phase lines without neutral										
	Measure its own power supply or a secondary voltage Range: 110690 VAC in 6 ranges Voltage control, phase/phase ±18% Control of phase sequence Phase unbalance control, phase/phase Frequency control: 4370 Hz	svo	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	110 230 400 440 500 690		
	 Timing 0,01 S999,9 H All input parameters are configurable Three configurable output relays 										

Image	Description	Model	Voltage	Range][[]	{	
	Control of sequence and phase fault Fix parameters Detection by voltage drop: -50% Timing: 2 s	PFCS PFCT DFCS DFCT SFCS SFCT	110 230 400 440 500	50 60	PFCS	PFCT	DFCS	DFCT	SFCS	SFCT
	. Control of sequence, phase fault, unhalance and				۲	44	۲	4.4	۲	44



- Control of sequence, phase fault, unbalance and rotation angle
- · Fix parameters
- · Detection by voltage drop: -20%
- · Detection by phases unbalance
- Detection by angle variation: ±15%
- · Timing: 2 s

PFAS PFAT DFAS DFAT SFAS SFAT PFAT 230 50 60 50 60 50 60							
PFAT 230 50 DFAT 440 60 SFAS 500		PFAS	PFAT	DFAS	DFAT	SFAS	SFAT
SFAI	PFAT 230 DFAS 400 50 DFAT 440 60						



- · Control of sequence, phase voltage, unbalance and rotation angle
- · Adjustable parameters
- Detection by voltage variation: ±18%
- Detection by phases unbalance
- · Detection by angle variation: ±15%
- · Timing: 0..30 s



- · Control of phase order, phase voltage, unbalance and rotation angle
- · Adjustable parameters
- · Detection by voltage variation: ±18%
- · Detection by phases unbalance
- · Detection by angle variation: ±15%
- · Timing: detec.: 2 s / rel.: 3 s

			Y PFEA	Y-Y PFEB	닛 DFEA	나뇌 DFEB	
PFEA PFEB DFEA DFEB	110 230 400 440 500	50 60					
			N.	7.7			

			\ \S	- Y-Y
			PFRS	PFRT
PFRS PFRT	110 230 400 440 500	50 60		

Acces	sories DIGITAL RELAYS	Price
	*(4) Extension to output 4-20 mA	
	*(3) Extension to output RS232	
	*(8) Extension to output RS485	

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- Application They are used to monitor the status of phase voltage lines with neutral.
 - When conditions are right, the relay remains activated and deactivates at the detection of any fault.
 - Depending on model, they can control: order of the phases, failure of any phase, imbalance between phases, rotation angle.

- Common data They do not need auxiliary power supply since they feed itself from the three-phase line.
 - · Independent models for lines of 50Hz or 60Hz.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
	Control of three-phase lines with neutral Measure its own power supply or a secondary									SVP
11111	voltage Range: 110690 VAC in 6 ranges Voltage control, ph/ph and ph/n Phase unbalance control, ph/ph and ph/n Frequency control: 4370 Hz Timing 0,01 S999,9 H	SVP	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	024 110 230 400 440 903 904	110 230 400 440 500 690	
	All input parameters are configurableThree configurable output relaysLCD graphic screen									

Image	Description	Description Model Voltage Rang		Range][
W W	Control of sequence and phase fault Fix parameters Detection by voltage drop: -50% Timing: 2 s				PFDS	PFDT	DFDS	나노 DFDT	SFDS	SFDT
		PFDS PFDT DFDS DFDT SFDS SFDT	110 230 400 440 500	50 60						
	· Control of sequence, phase fault, unbalance and				L'I	\\.\.\\	L'I	14.14 DEDT	L'I	\\.\.\\



- rotation angle
- · Fix parameters
- · Detection by voltage drop: -20%
- · Detection by phases unbalance
- Detection by angle variation: ±15%
- · Timing: 2 s

			PFBS	PFBT	DFBS	DFBT	SFBS	SFBT
DFBS 40	10 30 00 40	50 60						



- · Control of sequence, phase voltage, unbalance and rotation angle
- · Adjustable parameters
- Detection by voltage variation: ±18%
- Detection by phases unbalance
- · Detection by angle variation: ±15%
- · Timing: 0..30 s



- · Sequence control, phase failure and phases imbalance
- · Detection by voltage variation: ±18%
- · Detection due to imbalance between phases
- · Phase sequence detection
- · Detection and reset timing, adjustable

			\ \frac{1}{2}	JJ.	```	J-7-
			PFFA	PFFB	DFFA	DFFB
PFFA PFFB DFFA DFFB	110 230 400 440 500	50 60				



Υ'	
SFFA	

Accessories DIGITAL RELAYS	Price
*(4) Extension to output 4-20 mA	
*(3) Extension to output RS232	
*(8) Extension to output RS485	

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Application

They are applied to control the RPM captured by different types of sensors: inductive, anemometers, etc.

Some typical applications include: speed control of turbines and engines, speed control for wind protection awnings, public sources, and so on.

Image	Description	Model	Interface	Nº relays	Type relay	Comm	Version	Voltage	Range	
······································	Tachometric relay to general application Control and visualization of the rotation speed to							024		SHA
	engine axes, turbines, etc., control speed conveyors belts, control of the strike or break transmission chains or endless conveyor	SHA	9 *[Q-U]	3 *[0-1-2]	A *[0-C]	0 *[4-3-8]	00	110 230 400 440 903	10K	
								904		

Image	Description	Model	Voltage	Range			
	· Tachometer relay generally applicable				الا PHAA	لاٰ DHAA	
E KY	Control RPM engines, turbines, etc. Detection on or under RPM		712		83,32	92,96	
i AA	Timing: ON delay adjustable from 030 S (low-RPM mode) Sensor NPN, PNP, Namur or potential free contact, 24VCC/10mA		U24 724	15K			
		PHAA DHAA	024 110 230 400 440				
			901 902				
	Control of min. RPM in motors, turbines, etc. Special for a lowest revolutions Timing: Adjustable from 0,5 to 10 s, only at supply voltage connecting				L\ PHBA	L\' DHBA	
		РНВА	U24 724 024	3K			

3K

024

110 230

DHBA

Products related with RELAYS FOR ANEMOMETERS	Page	
Anemometers for the control of the speed of the wind: SVR	97	

· Sensor Namur

Accessories DIGITAL RELAYS	Price
*(4) Extension to output 4-20 mA	
*(3) Extension to output RS232	
*(8) Extension to output RS485	

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Application • They are used to alternate control of two or three bombs, according to the model. Prevent abrasion of the pumps by reducing their working time. • The control is performed, depending on the model, by its own supply voltage, by level sensors or by pressures switches.

Image	Description	Model	Voltage	Range			
44	Alternative control of 2 pumps Control by supply voltage				\\\ PTBA	الا DTBA	
Land Mark	Ranges: 0,15.3 S Not sensor needed. It must be installed into the pump supply line	PTBA DTBA	U24 724 024 110 230 400 440	3 S			
			902				
	· Alternative control of 3 pumps				YYY PTBC	\\\ DTBC	
	Control by supply voltage Ranges: 0,153 S Not sensor needed. It must be installed into the pump supply line	PTBC DTBC	U24 724 024 110 230 400 440 901 902	38		5.50	
112-0	· Control of 1 pump				YY PNVB		
1	 Remote by level sensor Operating modes: Stop-Automatic-Manual Sensors with potential free contacts 2 sensors are needed to realize the maneuver 	PNVB	024 048 110 230 400		1100		
	· Alternative control of 2 pump				\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	 Remote by level sensor Operating modes: Stop-Automatic-Manual Sensors with potential free contacts 3 sensors are needed to realize the maneuver 	PNWB	024 048 110 230 400		PNWB		
	Alternative control of 2 pumps				Y-Y PMPA		
171 - 172 -	Remote pressure switch Operating modes: Stop-Auto-Manual Minimum pressure switch with volt free contacts Two sensors are needed to perform the maneuver	PMPA	024 048 110 230 400				
Products related w	vith PUMPS RELAYS				Page		

Produ	cts related with PUMPS RELAYS	Page
	Float switches	2021
	Level magnetic switches: IMN	5586

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Application • They are used to amplify the signal from different types of sensors, depending on model.

Common data · The sensor input terminals are isolated from supply voltage of the relay.

Image	Description	Model	Voltage	Range	Г][l l	7	(17
1 1	Amplification for three-wires sensors Sensor NPN or PNP, 24 VDC / 10 mA		U24		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	나노 PSAT	SAS	IJ ŊIJ DSAT	<u> </u>
24.1	Maximum cadence: 10 pulse/s Minimum pulse width: 20 ms	PSAS PSAT DSAS DSAT	724 024 110 230 400 440 901 902						
TV AM	Amplifier for sensors Namur Namur sensor, 8,2 VDC Maximum cadence: 10 pulse/s Minimum pulse width: 20 ms	PSBS PSBT DSBS DSBT	U24 724 024 110 230 400		PSBS	Y-X PSBT	DSBS	DSBT	
	· Amplifier for PTC sensor		901 902		<u>'\</u>	\\-\-\\	\ <u>'</u>	\-\\ \-\-\	
AAA	Sensor: Termistor PTC, whichever value Several PTC can be serial connected while the total does not exceed 1500 ohms	PSCS PSCT DSCS DSCT	U24 724 024 110 230 400 440 901		PSCS	PSCT	DSCS	DSCT	
	Two hands relay		902		L	\ <u>\</u> \.\	 '\	<u> </u>	
20 24	Two hands relay Launch of presses and equipment handling risk Sensor: pontencial free contact, 24 VDC/10 mA	PSDS PSDT DSDS DSDT	U24 724 024 110 230 400 440 901 902		PSDS	PSDT	DSDS	DSDT	

Products related with RELAYS FOR SENSORS	Page	
Capacitive sensors with direct connection	46	

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Application • They are used to perform logic functions on a relay output from the signal received by the input sensors.

Common data • The input signal can come from potential free contacts. Alternatively, and depending on model, can connect sensors with NPN or PNP output.

Image	Description	Model	Voltage	Range			
200		PLAS	U24 724 024 110 230		YLAS	J' DLAS	
		DLAS	400 440 901 902				

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Application • They are used to amplify smaller capacity contacts on other devices. Depending on model, can be used with level sensors to automate start-stop maneuvers.

Image	Description	Model	Voltage	Range			
	Weak contacts protection To be used in instruments with potential free				الا PSPS	الا DSPS	SSPS
	· To be used in instruments with potential free contacts	PSPS DSPS SSPS	024 110 230 400 440				
_	· Contact amplifier with two independent inputs				Y Y PSMS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
244	· To be used in devices with potential free contacts	PSMS DSMS	724 024 048 110 230 400 901 902				
	· Control for detection of turbulences in liquids				الا PSIA	۲' DSIA	
244	 Delay to the level detection Control differential maximum and minimum levels by timing To be used in devices with potential free contacts 	PSIA DSIA	U24 724 024 048 110 230 400 901 902	1S 3S 15S 1M	FSIA	DOIA	

Produc	cts related with PROTECTION RELAYS OF CONTACTS	Page
	Float switches	2021
Ī	Level magnetic switches: IMN	5586

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INTERNET OF THINGS





Image	Reference / Description	Price
	dePACK	
	 Modular solution to create IoT devices Sensor modules: energy analyzer, temperature, humidity, conductive level, variable resistance, etc. Communication RS232, RS285, Ethernet, GPRS, LoRa, WiFi Digital and analog inputs 4-20 mA Digital outputs and relay Power supply: 12VDC, 24/48 VDC, 85-264 VAC, battery 	
	SBL8 230	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Transparent communication with LoRa (TM) protocol RS-485 Modbus RTU Communication External antenna Supply voltage: 230 VAC Installation in 1 DIN rail module LoRa (TM) communication up to 20000 meters outdoors LoRa (TM) communication up to 1000 meters indoors	
	SBL8 712	
	 Transparent communication with LoRa (TM) protocol RS-485 Modbus RTU Communication External antenna Supply voltage: 12 VDC Wall installation LoRa (TM) communication up to 20000 meters outdoors LoRa (TM) communication up to 1000 meters indoors 	



SBE8 230

- Converter/Adapter TCP-IP to RS485
 Communication with Modbus TCPIP protocol
 RS-485 Modbus RTU Communication
 Installation in 2 DIN rail modules

SBC8 IO 24

- Converter/Adapter TCP-IP to RS485
 Communication with Modbus TCPIP protocol
 RS-485 Modbus RTU Communication
 Installation in 2 DIN rail modules



SBC8 IO 40

- Input/output module
 RS-485 Modbus RTU Communication
 Digital and/or analog inputs
 Digital outputs
 Installation in 4 DIN rail modules

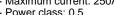
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Image	Reference / Description		Pric
	SKM8		
	 Single phase network meter Monitoring of energy, power, voltage, current, maximum demand active and reactive energy, power factor and cosine of phi Supply voltage: 85 265 VAC Input via measurement transformer (250 mA) RS-485 Modbus RTU communication 	_	
	SKT8		
	 Three phase network meter Monitoring of energy, power, voltage, current, maximum demand active and reactive energy, power factor and cosine of phi Supply voltage: 85 265 VAC Input via measurement transformer (250 mA) RS-485 Modbus RTU communication 		
	TRA1 80A		
	Open core measurement transformer Maximum current: 80A Power class: 1 Internal diameter: 10 mm		
	TRA1 100A		
	Open core measurement transformer Maximum current: 100A Power class: 1 Internal diameter: 16 mm		
7700	TRC1 100A		
Shimming St.	Closed core measurement transformer Maximum current: 100A Power class: 0,5 Internal diameter: 12 mm	_	
2.78.00	TRC1 250A		

TRC1 250A







Closed core measurement transformer
 Maximum current: 250A
 Power class: 0,5
 Internal diameter: 19 mm

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Image Reference / Description Price deDAT



- IoT Cloud Platform
 Customizable for each application
 Group data from different facilities
 Remote control and alarm actions in real time

 Application and treatment of data, reports
- Analysis and treatment of data, reports
 Available for desktop, mobile and tablet devices

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ACCESSORIES





Image	Reference / Description	Price
	NR.TUE/P 1 1/2	
0	Locking nut PVC 1"1/2 G For resistive sensors NR For capacitive sensors SCR	
0	NR.TUE/T 1 1/2 · Attachment nut PTFE 1"1/2 G · For resistive sensors NRA · For capacitive sensors SCRR 35 T	
200	NR.SEP/P · Electrodes separator for conductive probes · Manufactured in PVC	
317	NR.SEP/T · Electrodes separator for resistive probes · Manufactured in PTFE	
	NB/E1 · Electrode for NB head · SS AISI316. Ø6 mm · Length: 1000 mm	
/	NB/E2 · Electrode for NB head · SS AISI316. Ø6 mm · Length: 2000 mm	
	S3-B · 11 poles plug-in socket · Manufactured in Noryl SE100 · Fastening by screw or to DIN rail · Appliable at all the relays of PR series	
	PS-4 Protector against atmospheric discharges Electrical connection by screwed terminal Mechanical attachment by screws Suitable for sensors with analog output 4-20 mA Three protection levels	

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Image	Reference / Description	Price
	PS-3 Overvoltage protector in the probes line Electrical connection by screwed terminal Mechanical attachment by bracket with ø10 mm hole Appliable at all the resistive relays	
F-11	MPS 05 Detector module for sensors IMN MPS Usable with level relay SNIA Electrical connection: Rigid wire 1,5 mm² Length: 40 mm Temperature: -20+60 °C	
-11	MPS 80 Detector module for sensors IMN MPS Usable with level relay SNI Electrical connection: Rigid wire 1,5 mm² Length: 40 mm Temperature: -20+60 °C	
2	MPM Assembly in factory of the modules MPS inside the sensors IMN MPS Distribution in the sensor according to customer specifications	
	PMD Set of potentiometer, front plate and button Usable in timers with remote control PMD100K: 100 Kohm, linear PMD500K: 500 Kohm, linear PMD1M: 1Mohm, linear	
- mus	INCR.TP Bracket for sensors INCR Thread PVC 1"G	
	PAR Cable clamp for float switches Prevents mechanical damage to the cable Secure level detection position Quick and easy installation	
	PAC Cable clamp for TPSM sensors Prevents mechanical damage Safe and simple placement Maximum traction: 500 kg	

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Image	Reference / Description	Price
ago	TCD	. 1100
600	· Tube dissuasive and/or dielectric	
111	· Use only in liquids	
- 11	Useful as a dielectric for non-metallic tanks Useful as a deterrent to prevent the waving in tanks with agitator	
- 11	Usable with capacitive sensors and transducers (SCA, TA)	
10		
	IPD 1C	
	Panel meter for digital indication 1 input channel	
O LEES O	Three set points	
0	Several reading magnitudes Range: 4-20 mA	
	Power supply: 60260 VAC / 2260 VDC	
	IPD 2C	
	Panel meter for digital indication	
0 1330	· 2 input channels · Three set points	
9	Several reading magnitudes	
	· Range: 4-20 mA · Power supply: 60260 VAC / 2260 VDC	
	IPDS	
	· Panel meter for digital indication	
	· LCD display of 4 digits · Powered by the loop 4-20 mA	
8525	· ATEX certificated, Ex II 1G [EEx ia] IIC T6	
	VTP	
4.0	· Digital visualization tool	
A	Connects to the transmitter itself Powered through 4-20 mA loop	
BEB	· 4-digit LCD display, configurable	
0 0	Protection IP65	
	VSL	
	· 4-20 mA signal display	
1	· Self-powered by the loop itself · Range of -999 +9999	
BRAN	· Configurable alarm points	
	· Mounting in 22.5 mm bore	
	VRS	
	· RS 485 indicator	
-	Modbus RTU and ASCII protocols Can be used as master or slave	
Shrall	· Supports variables type int, word, float and string	
	· Mounting in 22.5 mm bore	
	AG-5202-B2	
	Galvanic isolator for digital signals	
	· 2 outputs SPDT 2A/250VAC · Power supply: 24230 VAC / 24250 VDC	
	· ATEX certificated, Ex II (1) G D [EEx ia] IIC	

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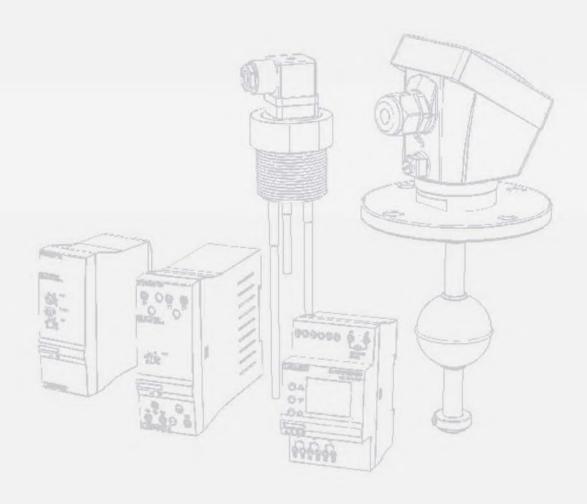




Image	Reference / Description	Price
	AG-5104-B	
	 Galvanic isolator for analogical signals. 2 channels. Range: 0-20 mA Output: 0-20 mA Power supply: 24230 VAC / 24250 VDC ATEX certificated, Ex II (1) G D [EEx ia] IIC 	
	CBPZ	
	 Interface for remote programming from PC Usable with the standard digital control relays Connects to your PC via RS232 	
	DPAY	
WV AA	 Power source for small loads Violtage: 24 VDC Current: 50 mA 	
	AE01	
	Antenna for wall installation Frequencies: 850 MHz 2.4 GHz Impedance: 50 ohms Gain: 2.2 dBi, maximum Cable 2 meters	
	TRC1 35 50/100/250	
	· Current transformer	

- Ø35 mm closed core Input current: 50A, 100A or 250 A Output current: 250 mA

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