

Sensors





Level sensors Proximity sensors Tailor-made products

www.siccom.com

About SICCOM



Located in the south of Paris, SICCOM manufactures and markets detection components for many sectors of activity such as air conditioning, medical, automotive, household appliances, chemistry/parachimy, food....

Founded in 1979, SICCOM has a technological experience that allows it to meet all your detector needs, both in integration and distribution.

SICCOM's expansion has led it to open plants in Madagascar and China, as well as sales offices in Milan, Barcelona and New Delhi, beyond its headquarters in Ile-de-France.



Factory (Madagascar)

Headquarter (France)

Factory (China)

Our quality commitment

SICCOM attaches great importance to the quality of its products. The desire for increased customer satisfaction is the basis for the continuous improvement actions implemented.

SICCOM uses a quality system based on the search for the performance and efficiency of its processes. This implies the appropriation of permanent progress by all the actors of the company and its factories.

Each SICCOM product is controlled at different stages of its production. Functional tests, component control, laboratory tests, endurance test benches: the means used are equal to the quality challenges.

All our sites are ISO 9001 certified.

All SICCOM products subject to the requirements of the European directives are subject to additional checks in order to give them the right to free movement throughout the European Economic Area. These products carry the CE marking, an additional guarantee of safety. Others are UL - CSA certified for North American countries and EAC for the Commonwealth of Independent States (CIS).









Our profession: detection

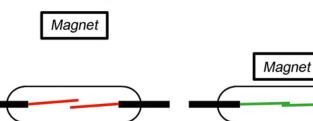
SICCOM detection systems are mainly based on the use of the reed switch.

The reed switches consist of two ferromagnetic blades of iron and nickel, sealed in a glass capsule. These blades open or close by introducing a magnetic field in the vicinity of the bulb (magnet or powered coils).

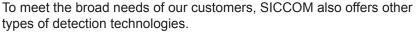


Reed switches are used as magnetic presence sensors because they do not consume energy when there is no magnetism (unlike Hall effect sensors). They can be used as sensors in electronic devices, in cars and as sensors to detect the closing or opening of doors and covers (safety). They can also be used as limit switches for cylinders. They are used for their durability and reliability.

OFF - contact opened



ON - contact closed



Thus, the Divar probe opts for detection using the resistivity of the liquid. The Syrus level detector uses a microswitch detection system.

Find more information on the product pages.



Divar probes (Resistive detection)



Syrus detector (microswitches)

SICCOM in the world



SICCOM is a partner of manufacturers and distributors in more than 50 countries



Sensors

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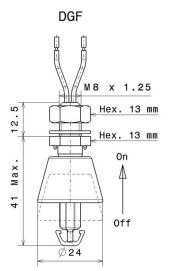
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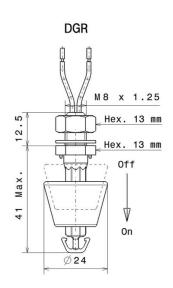
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This polypropylene level switch supplied with nut and sealing washer is fixed from the inside of the tank. With a small footprint, only 53 mm long, it is perfectly suited for applications in water up to 80°C.

The position of the float on the body allows the direction of the contact to be reversed (to be determined when ordering).

It can be reversed for installation at the bottom of the tank. The mounting orientation then determines the detection (high or low level).

General features	DGRHTF2410	DGFHTF2540
Body material	Polypropylene	Polypropylene
Float material	Polypropylene	Polypropylene
Seal material	Silicone	Silicone
Nut material	Nylon	Nylon
Cable material	PVC	PVC
Cable cross section	0,34 mm² - 500 mm	0,34 mm² - 500 mm
Operating temperature (in water)	0 to 80°C	0 to 80°C
Contact closed	Stop side	Nut side
Applications	Multi-purpose	Multi-purpose

Electrical features of the contact		
Electrical power max. 30 W		
Electrical voltage (AC) max.	250 V	
Electrical voltage (DC) max.	200 V	
Current max.	1 A	

Installation instructions)
• Mounting from inside the f	ank
o Drilling diameter: Ø8,5 mr	n
• Wall thickness: to 4 mm	
• Fastening: Seal and nut M	18
○ Tightening torque: 0,6 Nm	

A tailor-made request?

Our design office and our sales department are able to offer you an optimal solution in answer to your specifications: material, wire, cable, connector, specific accessory...

Contact us to discuss your project together.



DP series





Applications





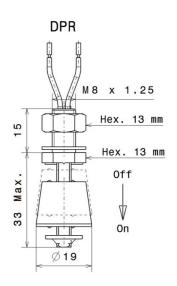


This polypropylene level switch, supplied with nut and sealing washer, is fixed from the inside of the tank. With a small footprint, only 48 mm long, it is perfectly suited for applications in water up to 80°C.

The position of the float on the body allows the contact to be reversed (to be determined when ordering).

It can be reversed for installation at the bottom of the tank. The mounting orientation then determines the detection (high or low level).

General features	DPFHTF9220	DPRHTF9230
Body material	Polypropylene	Polypropylene
Float material	Polypropylene	Polypropylene
Seal material	Silicone	Silicone
Nut material	Nylon	Nylon
Cable material	PVC	PVC
Cable cross section	0,34 mm² - 500 mm	0,34 mm² - 500 mm
Operating temperature (in water)	0 to 80°C	0 to 80°C
Contact closed	Nut side	Stop side
Applications	Multi-purpose, Food Multi-purpose, Food	



Electrical features of the contact		
Electrical power max. 30 W		
Electrical voltage (AC) max.	250 V	
Electrical voltage (DC) max.	200 V	
Current max.	1 A	

Installation instructions
 Mounting from inside the tank
◦ Drilling diameter: Ø8,5 mm
○ Wall thickness: to 6 mm
◦ Fastening: Seal and nut M8
○ Tightening torque: 0,6 Nm

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DPF M 8 x 1.25 Hex. 13 mm Hex. 13 mm On Off

6











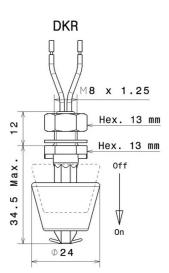
Hydrocarbons

This polyamide/polypropylene level switch, supplied with nut, is fixed from the inside of the tank. With a small footprint, only 47 mm long, it is perfectly suited for applications in water up to 80°C.

The position of the float on the body allows the contact to be reversed (to be determined when ordering).

It can be reversed for installation at the bottom of the tank. The mounting orientation then determines the detection (high or low level).

General features	DKFBTF4600	DKRBTF4620
Body material	Polyamide	Polyamide
Float material	Polypropylene	Polypropylene
Nut material	Nylon	Nylon
Cable material	PVC	PVC
Cable cross section	0,34 mm² - 570 mm	0,34 mm² - 570 mm
Operating temperature (in water)	0 to 80°C	0 to 80°C
Contact closed	Nut side	Stop side
Applications	Multi-purpose	Multi-purpose

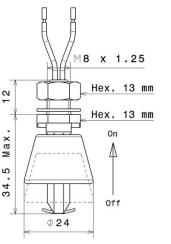


Electrical features of the contact		
Electrical power max. 10 W		
Electrical voltage (AC) max.	140 V	
Electrical voltage (DC) max.	200 V	
Current max.	0,5 A	

Installation instructions
\circ Mounting from inside the tank
○ Drilling diameter: Ø8,5 mm
◦ Wall thickness: to 4 mm
○ Fastening: Seal and nut M8
○ Tightening torque: 0,6 Nm

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DKF









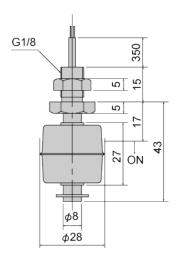




This level sensor, with an overall length of 58 mm, for a maximum float diameter of 28 mm, is used in a vertical position and allows the measurement of the «high» or «low» level of a liquid in a container.

It has a high reliability contact allowing the user to choose a «high» or «low» detection by simply turning the float over. Being made of stainless steel, it can be mounted in pharmaceutical and medical facilities and is resistant to high temperatures.

It can be reversed for installation at the bottom of the tank. The mounting orientationn then determines the detection (high or low level).



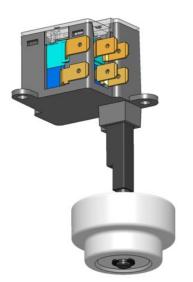
General features	DX1HTFD090	
Body material	Stainless steel	
Float material	Stainless steel	
Nut material	Stainless steel	
Cable material	PVC	
Cable cross section	0,34 mm² - 350 mm	
Operating temperature (in water)	-40 to 120°C	
Contact closed	Stop side / Nut side (by reversing the float)	
Applications	Multi-purpose, Food, Hydrocarbons	

Electrical features of the contact		
Electrical power max. 50 W		
Electrical voltage (AC) max.	300 V	
Electrical voltage (DC) max.	300 V	
Current max.	0,5 A	

Installation instructions	
\circ Mounting from inside the tank	
 Drilling diameter: Ø8,5 mm 	
 Wall thickness: to 6 mm 	
 Fastening: Nut M8 	









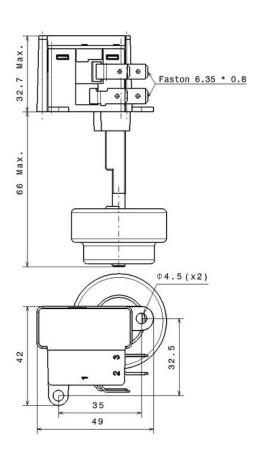






This level sensor, with a space requirement outside the tank of 38 mm long and 32.5 mm wide, is used in a vertical position and allows the measurement of the high level of a liquid in a container. The maximum diameter of the conical float is 45 mm, for a height of 23 mm.

The 2 tops allow two levels of component control, one working contact and one alarm or power failure contact.



General features	DYBB015500	
Body material	ABS	
Rod material	Polyacetal	
Float material	Polystyrene	
Cable material	PVC	
Operating temperature (in water)	0 to 50°C	
Applications	Multi-purpose	

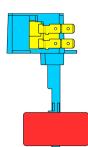
Electrical features of the contact		
Electrical voltage (AC) max. 250 V		
Current max. (low level)	4 A	
Current max. (high level)	3A	

Installation instructions

- Fastening with screws or plastic rivets
- Trigger levels available on plan
- Optional / Custom made:
 - Integral protective sleeve made of elastomer
 - Different rod length
 - Float dimensions

A tailor-made request?

Our design office and our sales department are able to offer you an optimal solution in answer to your specifications: rod length, float dimensions/form, protection sleeve.... Contact us to discuss your project together.















The multi-level resistive rod allows the continuous reading of a liquid level in a tank. This tank gauge has a tube (rod) diameter of 12 mm and is available in different lengths.

To adapt to your application, a tailor-made design can be studied: length, float, holding system, connector...

It can be used in a vertical position at the top or bottom of a tank depending on the application.

General features	DCEQBT2500	DCERBT2520	DCEPBT3110
Lenght	250 mm	500 mm	1000 mm
Tube material	Polycarbonate	Polycarbonate	Polycarbonate
Float material	Polystyrene	Polystyrene	Polystyrene
Seal material	EPDM	EPDM	EPDM
Cable material	PVC	PVC	PVC
Cable cross section	0,25 mm²	0,25 mm²	0,25 mm²
Operating temperature (in water)	0 to 50°C	0 to 50°C	0 to 50°C
Applications	Multi-purpose	Multi-purpose	Multi-purpose

Electrical features of the contact		
Standard voltage 12/24 V		
Detection interval	20 mm	
Resistance 10 to 180 ohms		

Installation instructions
\circ Mounting plate Ø69 mm with 5 holes Ø6 mm
\circ Impermeability by EPDM seal on the mounting plate



A tailor-made request?

Our design office and our sales department are able to offer you an optimal solution in answer to your specifications: length, wire, cable, connector, specific accessory... Contact us to discuss your project together.











Hydrocarbons

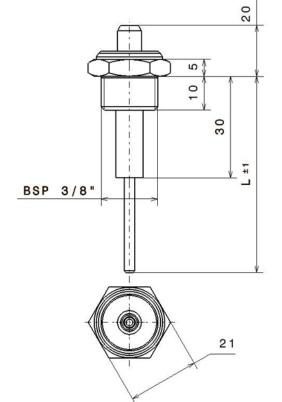
The DD probe, also known as the Divar probe, is a multi-threshold level detector (1, 2 or 3 thresholds) that uses the resistivity of the liquid (from 0.30 mS to 0.55 mS). This probe can be positioned vertically or horizontally (1 threshold) in a metal or plastic tank (under consultation).

We can also provide the electronic management board in 2 versions: one for an AC power supply and another for a DC power supply.

General features		
Body material	Silicone	
Rod material	Inconel®	
Nut material	Brass	
Cable material	Silicone sheath + fibreglass	
Cable cross section	0,6 mm² - 300 mm	
Operating temperature (in water)	0 to 100°C	
Applications	Multi-purpose	

Electrical features of the contact	
Electrical voltage (DC) max. 6 to 30 V	
Current max. (low level)	1,5 to 28 A

Maximum by 2/2 DOD and in deired bases three ad
 Mounting by 3/8 BSP cylindrical brass thread
○ Grounding by the liquid
\circ Operating pressure from 5 bar in operation to 10 bar in peak
\circ Mounting at the top or bottom of the tank



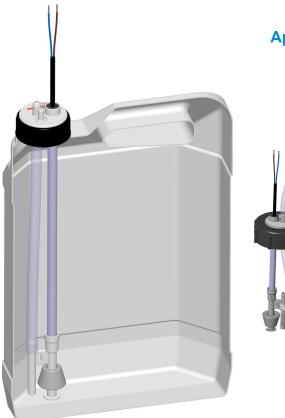
A tailor-made request?

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max

DB series - Suction cane with level detector





Applications







The DB sensor is a suction cane with a cap. It is screwed on a container, in place of the existing cap, and will allow, thanks to its sensor, to determine a liquid level (high, intermediate, low). The dry contact will then allow you to relay this level. A double connection to a pump is provided, allowing the suction and/or return in the container.

General features		
Float material	Polypropylene	
Tube material	PVC	
Cap material	Noryl	
Cable material	PVC	
Cable cross section	0,34 mm² - 2000 mm	
Operating temperature (in water)	5 to 80°C	
Applications	Multi-purpose	

11	



Electrical features of the contact	
Electrical power max.	30 W
Electrical voltage (AC) max.	250 V
Electrical voltage (DC) max.	200 V
Current (resistive) max.	1 A

Installation instructions

- Screw fixing on the container (non-waterproof)
- Suction tube Ø6 to 10mm inside
- Check the chemical compatibility with your liquid

A solution adapted to your container

Customization of the following elements:

Сар

We offer plugs of different diameters, screw threads, depths...

Tubes

All tube lengths are available. This will allow, whatever the depth of the container, to detect the liquid threshold as low as possible.

Whatever its shape and capacity!

(Neck Ø32mm minimum inside diameter)



DHN series







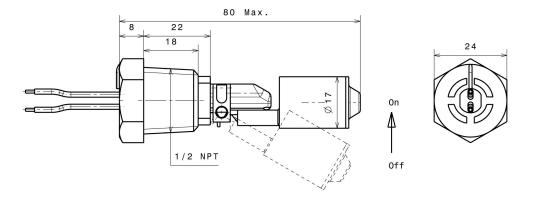






This polyamide or polypropylene level switch is mounted from the outside of the tank using a 1/2 NPT thread.

It allows to detect «high» or «low» levels: float aligned with the body (NC), according to its mounting direction.



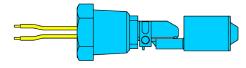
General features	DHNOFA5230	DHNOFP5370
Body material	Polyamide	Polypropylene
Float material	Polyamide	Polypropylene
Cable material	PVC	PVC
Cable cross section	0.6 mm² - 500 mm	0.6 mm² - 500 mm
Operating temperature (in water)	0 to 80°C	0 to 80°C
Applications	Multi-purpose, Hydrocarbons	Multi-purpose, Food

Electrical features of the contact	
Electrical power max. 30 W	
Electrical voltage (AC) max.	250 V
Electrical voltage (DC) max.	200 V
Current max.	1 A

Installation instructions	
\circ Mounting from outside the tank	
◦ Screw fixing in a 1/2 NPT thread	
 Closed contact when the liquid rises or falls 	
○ Tightening torque: 0,5 to 5 Nm	

A tailor-made request?

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DHG series





Applications

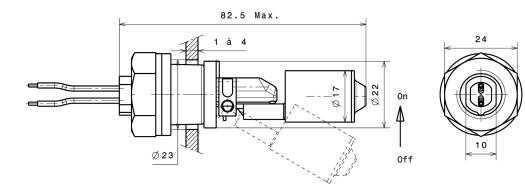






This level switch is available in polyamide or polypropylene and can be mounted from outside the tank or tank. Its fixing is secured by a compression seal provided.

It allows to detect «high» or «low» levels: float aligned with the body (NC), according to its mounting direction.



General features	DHGEFP2560	DHGNFA2660	DHGSFA5200
Body material	Polypropylene	Polyamide	Polyamide
Float material	Polypropylene	Polyamide	Polyamide
Seal material	EPDM	Nitrile	Silicone
Nut material	Nylon	Nylon	Nylon
Support washer material	Nylon	Nylon	Nylon
Cable material	PVC	PVC	PVC
Cable cross section	0.6 mm² - 500 mm	0.6 mm² - 500 mm	0.6 mm² - 500 mm
Operating temperature (in water)	0 to 80°C	0 to 80°C	0 to 80°C
Applications	Multi-purpose	Multi-purpose, Hydrocarbons	Multi-purpose

Electrical features of the contact	
Electrical power max.	30 W
Electrical voltage (AC) max.	250 V
Electrical voltage (DC) max.	200 V
Current max.	1 A

Installation instructions

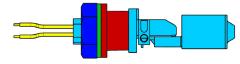
\circ Mounting from outside the tank	
\circ Fixing by compression of an expansion joint	
○ Drilling diameter: Ø23 mm	
○ Wall thickness: 1 to 4 mm	
 Closed contact when the liquid rises or falls 	
 ○ Tightening torque: - 0,5 à 3 Nm for EPDM seal - 0.8 à 1 Nm for silicone seal 	

0.8 à 1 Nm for silicone seal

- 0,5 Nm for nitrile seal

A tailor-made request?

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DHM series





Applications

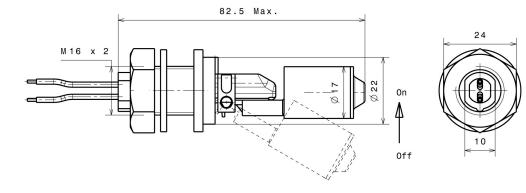






This polyamide level switch is mounted from inside the tank. It is supplied with its accessories for a secure and waterproof fixing.

It allows to detect «high» or «low» levels according to its mounting orientation.



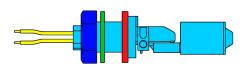
General features	DHMCFA5360	
Body material	Polyamide	
Float material	Polyamide	
Sealed washer material	Rubber GU70	
Washer material	Nylon	
Cable material	PVC	
Cable cross section	0.6 mm² - 500 mm	
Operating temperature (in water)	0 to 80°C	
Applications	Multi-purpose	

Electrical features of the contact	
Electrical power max.	30 W
Electrical voltage (AC) max.	250 V
Electrical voltage (DC) max.	200 V
Current max.	1 A

Installation instructions	
\circ Mounting from inside the tank	
\circ Fixing by a gasket, a support washer and a nut M16	
○ Drilling diameter: 17 mm	
 Closed contact when the liquid rises or falls 	
○ Tightening torque: 0,5 to 3 Nm	

A tailor-made request?

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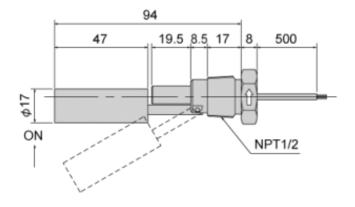






This stainless steel level switch is mounted from the outside of the tank using a 1/2 NPT thread.

It allows to detect «high» or «low» levels according to its mounting orientation.



General features	DXN0FXD080	
Body material	Stainless steel	
Float material	Stainless steel	
Cable material	PVC	
Cable cross section	0,34 mm² - 350 mm	
Operating temperature (in water)	-40 to 120°C	
Applications	Multi-purpose, food, hydrocarbons	

Electrical features of the contact	
Electrical power max. 50 W	
Electrical voltage (AC) max.	300 V
Electrical voltage (DC) max.	300 V
Current max.	0,5 A

Installation instructions
\circ Mounting from outside the tank
 Screw fixing in a 1/2 NPT thread
\circ Closed contact when the liquid rises or falls





They are used to monitor a movement and activate safety functions by controlling the opening / closing of doors, protective covers and various safety systems.





Туре А







Туре В





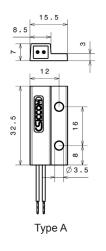








Type D



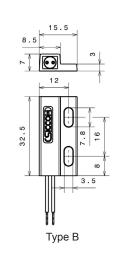
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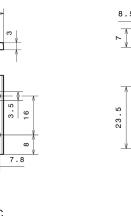
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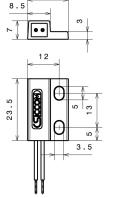
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Туре С



15.5



General features		
Body material	Polyamide	
Cable material	PVC	
Cable cross section	0.6 mm² - 500 mm	
Operating temperature	0 to 80°C	
Applications	Multi-purpose	

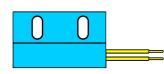
Electrical features of the contact			
	Low voltage	Power supply	
Electrical power max.	10 W	30 W	
Electrical voltage (AC) max.	140 V	250 V	
Electrical voltage (DC) max.	200 V	200 V	
Current max.	0,5 A	1 A	

Installation instructions

- \circ Screw fixing in holes with different positions
- \circ Symmetrical units
- Variable dimensions



Our design office and our sales department are able to offer you an optimal solution in answer to your specifications: dimensions, holes, wires...

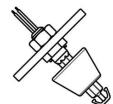


Contact us to discuss your project together.

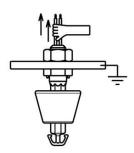
Mounting recommendations



Vertical sensors



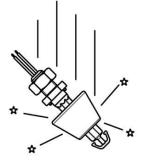
Make sure it is installed in vertical position



Cable side No traction exerted on the wires



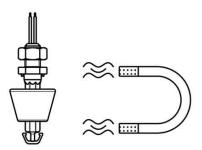
Make sure ther are no vibrations in the installation area A specific request is otherwise necessary



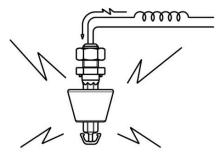
Avoid any shock to the level sensor when stored or when fitted as it may otherwise modify its characteristics



Cable side No immersion No humidity No vapour No run off allowed A specific request is otherwise necessary in particular for air-conditioning applications



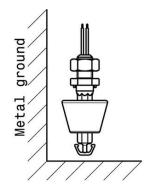
Make sure there is no magnetic field in the vicinity



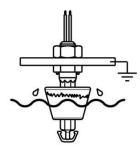
Check the kind of electric load on the contacts The value indicated on the drawing is for a resistive load only!



Check the water tightness between the float assembly and the cable assembly



Do not install in the vicinity of a magnetic metal ground Risk of modification or disturbance in the detection

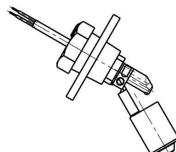


Make sure the chemical character of the liquid used is compatible with the components of the sensor that are immersed, in combination with the operating or peak temperature and the required lifetime

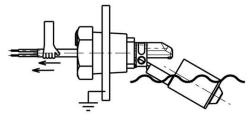
Mounting recommendations



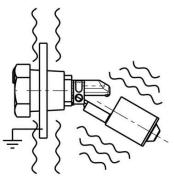
Horizontal sensors



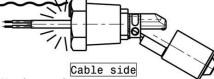
Make sure it is installed in horizontal position



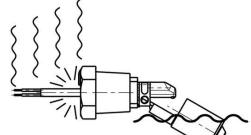
Cable side No traction exerted on the wires



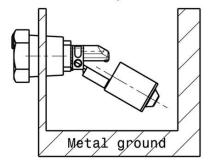
Make sure ther are no vibrations in the installation area A specific request is otherwise necessary



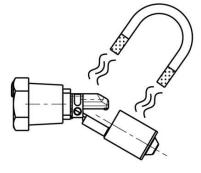
No immersion No humidity No vapour No run off allowed A specific request is otherwise necessary in particular for air-conditioning applications



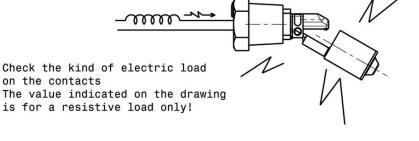
Check the water tightness between the float assembly and the cable assembly

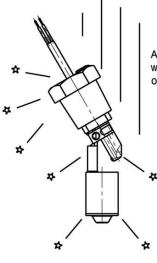


Do not install in the vicinity of a magnetic metal ground Risk of modification or disturbance in the detection

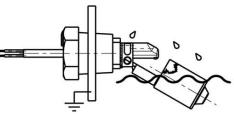


Make sure there is no magnetic field in the vicinity





Avoid any shock to the level sensor when stored or when fitted as it may otherwise modify its characteristics



Make sure the chemical character of the liquid used is compatible with the components of the sensor that are immersed, in combination with the operating or peak temperature and the required lifetime

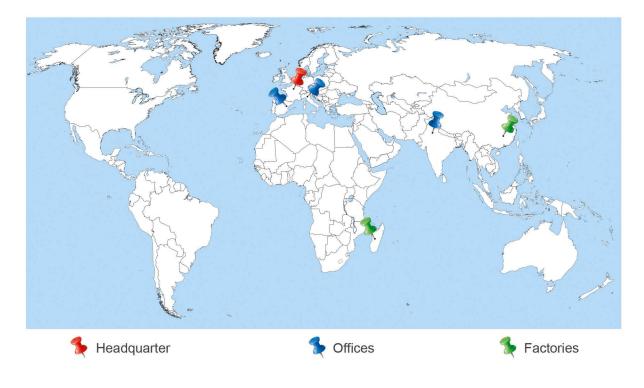


Sensors

SICCOM is established all across the world. As an international manufacturer, we are committed to product quality and reliability.

Listening, communication and service are the three key values for our customer approach.

We will be delighted to provide further information, so please CONTACT US.



SICCOM France - Headquarter

2, rue Gustave Madiot ZI Les Bordes 91070 Bondoufle Tel : +33 1 60 86 81 48 Fax : +33 1 60 86 87 57 Email : commercial@siccom.fr

SICCOM Italia

Via San Francesco, 10 21047 Saronno, Varese Tel/Fax : +39 02 96 36 21 40 Email : siccom_italia@tin.it

SICCOM España

Barcelona Tel : +34 622 487 110 Email : tducasse@siccom.fr

SICCOM India

New Delhi Tel : +91 99 9900 3240 Email : djagga@siccom.fr

www.siccom.com