

NO Normally Open

Float downwards

Constraint de

Typical connection to contactor



Switch NO - SPST Output Contact ON/OFF Enclosure Rating IP66 ! Never connect the sensor to a

motor, pump, lamp or any other load over 20W. Always use a contactor or relay.

The sensors work in all voltage and current ranges displayed in the table bellow:						
Operating Voltage	Max. Switching Power	Max. Switching Current	Peak Current			
110Vac	20VA	0.2A	0.5A @20ms			

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220Vac	20VA	0.1A	0.5A @20ms			
5Vdc	2.5W	0.5A	1A @20ms			
12Vdc	5W	0.5A	1A @20ms			
24Vdc	10W	0.5A	1A @20ms			
24Vac: NOT recommended						

- Term of Warranty

For installations according to this guide:

01 (one) year warranty - Incorrect installation cancels the warranty. All sensors have been tested and approved during the manufacture process. **Chemical products** require tests by the customer to verify compatibility with the constructive material of the sensor.

Liquids with ferrous particles require technical analysis: the sensor has magnetic component inside.

(h) On **datasheets.icos.us** available technical specifications

+55 (15) 3032.9190

Electrical contact of sensors - Attention to install

Reed Switch 20W/VA: Protect the electrical contact of your sensor



Reed Switches are hermetically sealed contacts actuated by a magnetic field.

The life expectancy of a reed switch refers to a kind of load to be used. Reed Switches of the highest reliability are applied in our sensors, and their life expectancy can reach above two million operations. However, when they are switching lamps, inductive or capacitive loads, this number may decrease.

Switching Power

It is important to consider that the power specified by an electrical load is often referred to the permanent working state.

For higher power, use an auxiliary relay or contactor as recommended below.

Siemens 3RT1015 Contactor Initial: 31.7VA Rated: 5.1VA

Weg CW07 Mini Contactor* Initial: 19.3VA Rated: 5.5VA

Schneider CA2KN Contactor Initial: 30VA Rated: 4.5VA

Note: Reed Switches have reached over one million operations in tests with contactor and K8* snubber filter.



Contrasseco Sensor C1 M12



*For sale on accessories.icos.us

Questions? Call us BEFORE you install: +55 (15) 3032.9190

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PROTECTION PROCEDURES BELOW DESCRIBED CAN IMPROVE THE REED SWITCH PERFORMANCE

• Switching inductive loads



? Risk of failure (welding of the Reed Switch Contact) due to CAPACITANCE, which can occur depending on the distance and cable used in the connection to the contactor.

• Connecting the sensor to a contactor in long distances, use resistor:



Important: For distances greater than 40m, use 24Vdc voltage.

• Connecting the sensor to an electronic equipment:



Minimization with **relay coupler**, use 4K7 10W resistor.



Sensor to Detect Lack of Water in Pipelines



h On **datasheets.icos.us** available technical specifications

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icos B.01/Mar2017 Contrasseco Sensor C1 M12 Manual: Model for Pump Protection **IMPORTANT** ! YOU MUST CHECK BEFORE INSTALLATION Install on the outlet pumps **Mounting on Outlet** according to the Mounting **Pumps** Options* below Installation on inlet/outlet port Connection 1 1/2" BSPT, with sealant tape Install the sensor with the float down (NO), watch the arrow Float printed on body, according to the Mounting Options* below **Maximum Switching** 220Vac Voltage **NEVER CONNECT THE SENSOR DIRECTLY TO THE PUMP!**

Technical Data

Questions? Contact us BEFORE you install: sensor@icos.us | +55 (15) 3032.9190

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How to Assemble the Contrasseco Sensor to Protect The Centrifugal Pump Against Dry Running



Dimensions in milimeters