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EC Declaration of Conformity

We declare under our sole responsibility, that the product

Make: LANCIER Monitoring
Type: Float Switch-4S

to which this declaration refers, meets the relevant health and safety requirements of the following EC directives:

2014/30/EU Electromagnetic compatibility

2011/65/EU RoHS-II

For proper implementation of the health and safety requirements named in the EC directives the following standard(s) and/or technical specification(s) have been consulted:

EN 61326-1 Electrical equipment for measurement, control and laboratory use -

EMC requirements (class B)

Münster, 06.03.2017

Research and Development

BA 075797.020/Rev. 00

Managing Director

General Information

These operating instructions should make it easier for you to become acquainted with the product. They contain important information to ensure safe, appropriate and cost-effective use of the equipment. The operating instructions endorse the directives of national regulations for the prevention of accidents and the protection of the environment.



These operating instructions shall be read and adopted by anyone assigned to work with/on the equipment, e. g. during operation to include setting-up, maintenance and trouble-shooting.

In addition to the operating instructions and the mandatory regulations for the prevention of accidents, applicable in the operator's country and at the place of use, the recognized technical regulations for safe and professional operation shall also be observed.

Designated Use

The float switch-4S is designed to monitor water levels.

Any non-compliant use excludes the manufacturer from liability for any damages. The operator carries the risk!

Safety Instructions



Read and observe safety instructions prior to initial operation!

• Keep the operating instructions ready to hand!

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Operating Instructions

Float Switch-4S



BA 075797.020/03.17

Order-no. 074764.004

Important! It is imperative to read and observe all safety instructions prior to initial operation!



and casting compound

Accessory

Contact grease, 200 ml

Order-no. 047792.000

xoq bu

Float Switch-4S
with 5 m connection cable
additionally equipped with connecting box
and casting compound

Ordering Data

Dimensions	mm 03 .msib x mm 391
Storage temperature	-30 +80 °C, other temperature ranges on request
Operating temperature	-S0 +70 °C, other temperature ranges on request
Media	water
	waterproof housing, IP 68
	connecting plug at housing with gold plated contacts
Equipment	5 m connection cable
Measuring range	open / closed / line disconnection / line short-cut

Technical Data Float Switch-4S

Float Switch-4S operating instructions



Accident prevention! All circuit lines must be dead before mounting or dismounting of the sensor or the opening of the sensor housing!

- The Float Switch-4S should only be operated in technically sound condition, for its designated use, with safety and risk awareness in mind, taking into account the operating instruc-
- Do not make any modifications to the Float Switch-4S! It is specifically permitted to turn over the floating unit in order to reverse the switching status.
- Mounting, maintenance and repair work should only be performed by trained personnel!
- Only use original LANCIER Monitoring replacement parts!

Scope of delivery

- Float Switch-4S
- Connection cable with plug
- · Housing clamp
- · Screw and rawlplug
- · Operating instructions

Function

The Float Switch-4S is equipped with a reed contact that switches in the event of positional change of the floating unit.

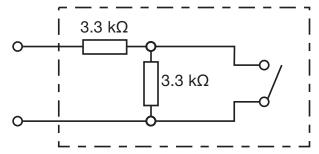
The default mode can be changed by turning the floating unit (default mode is "Break contact").

Float Switch-4S mode can be remotely ascertained via the LANCIER RM module system or an external contact sensor.

The following measuring values will be indicated:

Switch open: $6.6 \text{ k}\Omega$ Switch closed: 3.3 kΩ Line disconnection: ∞ k Ω Line short-break: $0.0 \text{ k}\Omega$

Circuit diagramme of float switch-4S



The LANCIER RM-Bus

The LANCIER Monitoring RM Bus is a modular sensor system in which the modules can easily be linked together using internal plug-in contacts. A variety of modules are available for a variety of metrology tasks. Float Switch-4S status can be remotely ascertained e.g. using the RM Loop Module.

Changing the default contact mode

• Default contact mode:

The contact opens when the water reaches a set level. The smooth side of the floating unit [1] faces the spring washer [2].





Break contact

Make contact

• To change the default mode:

Loosen the spring washer [2] and turn the floating unit [1]: The side with the 2 round depressions [3] must face the spring washer [2].

Secure the spring washer [2] in the groove again.

The contact closes when the water level is reached.

The change can be reversed.

Float Switch-4S assembly

- · Determine where it is to be installed: Position it so that the floating unit faces down and reacts when the maximum water level is reached.
- Screw the housing clamp in at the right place with screw and rawlplug and then clamp the Float Switch-4S inside it or fasten it to existing struts with cable fasteners.
- Rawlplug, screw and housing clamp are included in the assembly set supplied.

Measurement line connection



Deadly risk!

Electrical connection must only be made by electrical specialists!

- Half fill Float Switch-4S socket with contact protection grease and insert the connecting cable plug in the socket as far as it
- · Check desired contact mode (make / break contact) using a continuity tester.
- Connect to the monitoring system.

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