LANCIER Monitoring

Operating Instructions

Float Switch

for fluid level monitoring

BA 074826.020/05.12

Technical Data Float Switch

Measuring range	open / closed
Switching voltage (AC)	< 50V
Switching voltage (DC)	< 75V
Switching power	< 10W
Equipment	5 m connection cable connecting plug at housing with gold plated contacts waterproof housing, IP 68
Media	water
Operating temperature	-20 .. +70 °C, other temperature ranges on request
Storage temperature	-30 .. +80 °C, other temperature ranges on request
Dimensions	165 mm x diam. 50 mm

Ordering Data

Float switch

make / break contact, 5 m connection cable **Order-no. 074764.000**
additionally equipped with connecting box
and casting compound **Order-no. 074764.010**

Accessory

Contact grease, 200 ml **Order-no. 047792.000**

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

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 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 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

Important!!
Read and observe safety instructions prior to initial operation!

- Keep the operating instructions ready to hand!

LANCIER Monitoring

LANCIER Monitoring GmbH
Gustav-Stresemann-Weg 11
48155 Münster, Germany
Tel. +49 (0) 251 674 999-0
Fax +49 (0) 251 674 999-99
mail@lancier-monitoring.de
www.lancier-monitoring.de

CE

EC Declaration of Conformity

We declare under our sole responsibility, that the product

Make:	**LANCIER Monitoring**
Type:	**Float Switch**

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

2004/108/EG	**Electromagnetic compatibility**

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, 09.05.2012

Research and Development Managing Director

BA 074826.020/Rev. 00

Float switch operating instructions

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

- The float switch should only be operated in technically-sound condition, for its designated use, with safety and risk awareness in mind, taking into account the operating instructions!
- Do not make any modifications to the float switch!
  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
- Connection cable with plug
- Housing clamp
- Screw and rawlplug
- Operating instructions

Function

The float switch 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 mode can be remotely ascertained via the LANCIER RM module system or an external contact sensor.

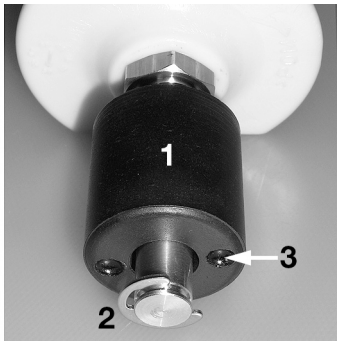
The LANCIER RM-Bus

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 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 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 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 unused float switch socket with contact protection grease and insert the connecting cable plug in the socket as far as it will go.
- Check desired contact mode (make / break contact) using a continuity tester.
- Connect to the monitoring system.

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