



## Danfoss LLS 4000 Liquid Level Switch Installation Guide

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Danfoss LLS 4000 Liquid Level Switch



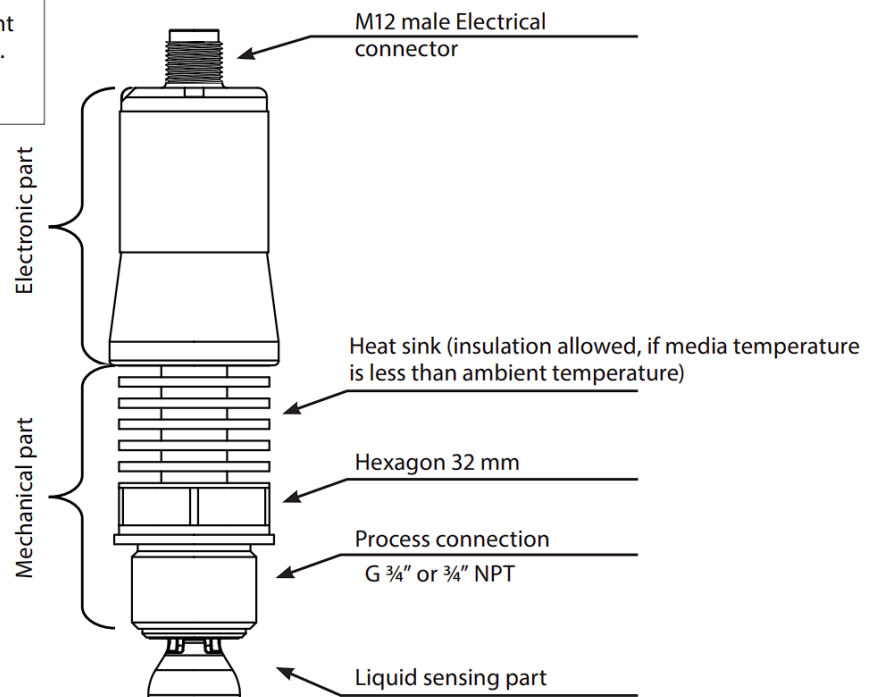
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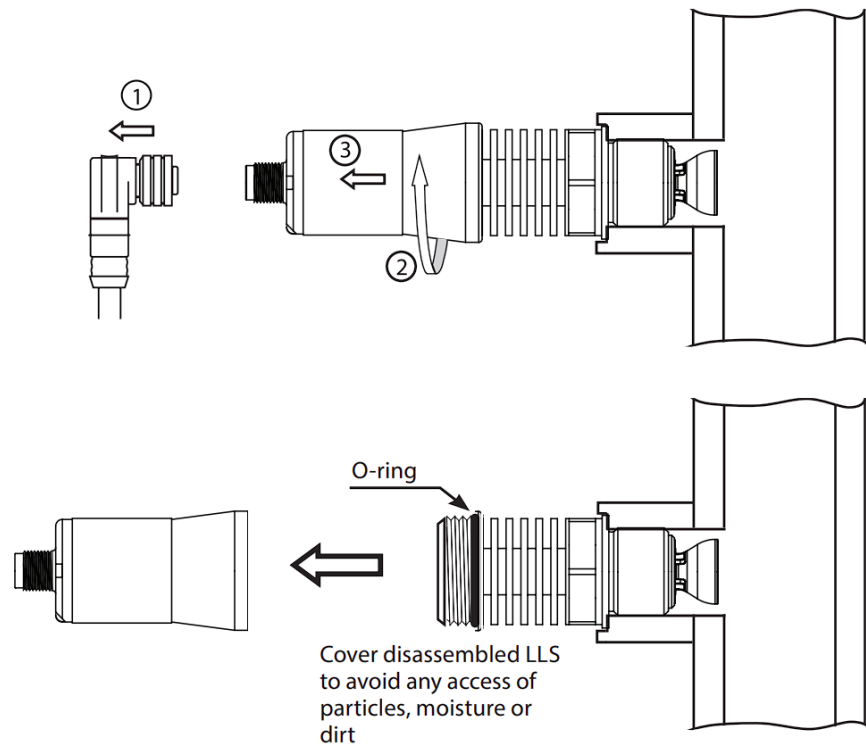
## Installation



**Warning!** This is a Class A device. This device may cause radio interference in residential areas. In case of interference, the operator may be required to take appropriate measures. This instrument has to be mounted on a metallic tank. The device is intended to be used in industrial areas.

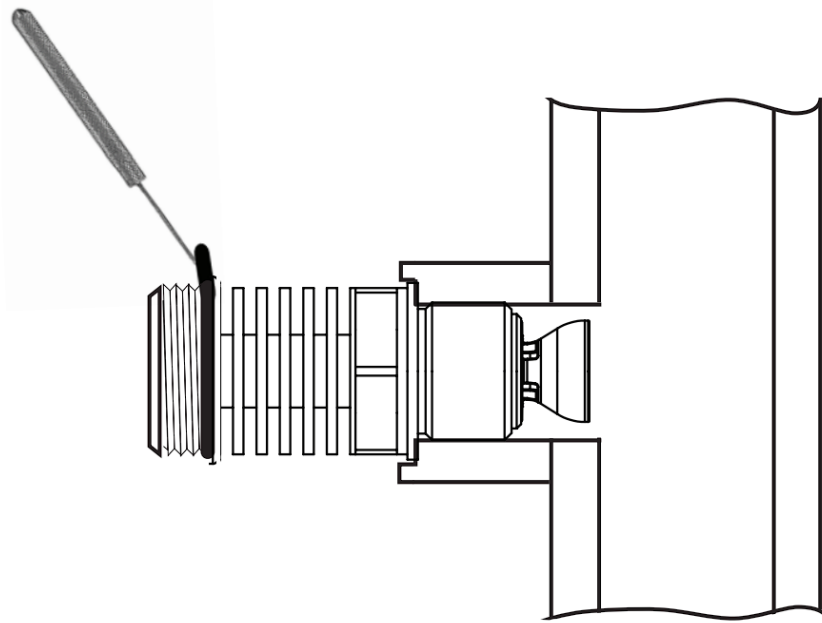


**Fig. 1**

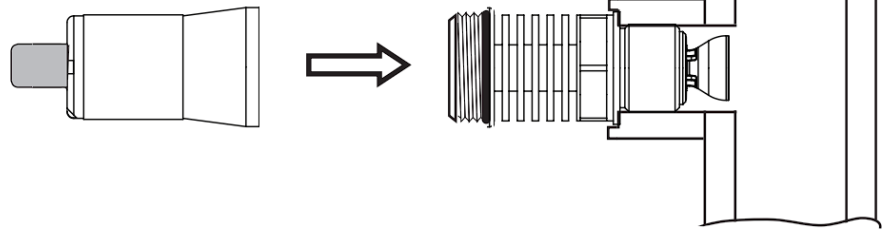


**Fig. 2**

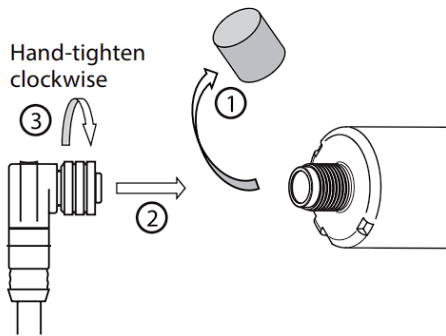
If any damage to the O-ring  
replace it carefully by use of  
appropriate O-ring tooling



**Fig. 3**

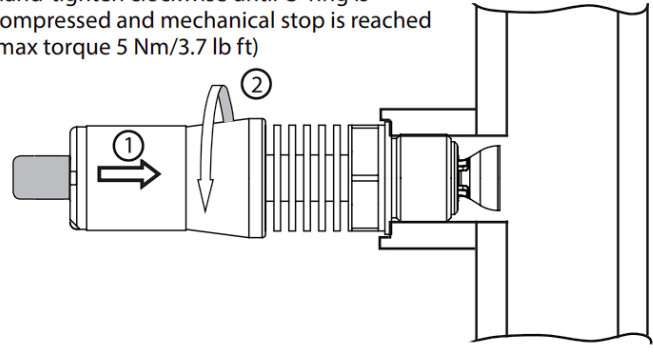


Hand-tighten  
clockwise

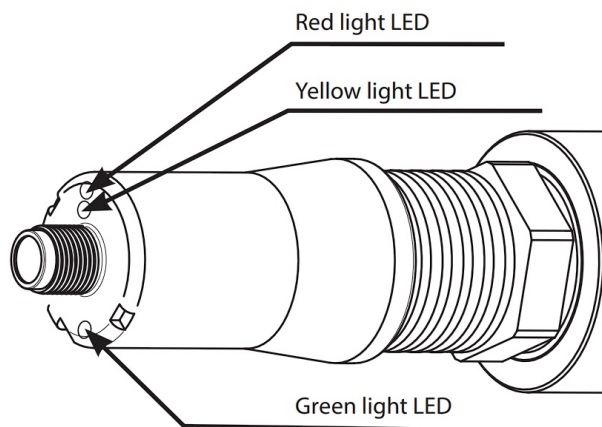


**Fig. 5**





























Hand-tighten clockwise until O-ring is  
compressed and mechanical stop is reached  
(max torque 5 Nm/3.7 lb ft)





**Fig. 4**



**Fig. 6**

	Level	LLS 4000/4000U NO mode*	LLS 4000/4000U NC mode*	Voltage connected	Level detection	LLS 4000/4000U Fault
				Green LED	Yellow LED	Red LED
High Level sensor			<div>SIL2 fixed configuration</div> 			
High Level sensor						
Low Level sensor						
Low Level sensor						
Voltage supply outside spec.	-					
LLS 4000/4000U fault**	-					
<div>  Green LED ON            Yellow LED ON            Red LED ON            Green LED Flashing. LLS 4000/4000U connected to Bluetooth device         </div>						
<p>* Configuration dependent. Non-SIL2 fully configurable. SIL2 fixed configuration and only applicable for High Level sensor</p> <p>** For failure types please connect the device to the Bluetooth App, enter fault state mode, and read the failure type</p> <p>*** Fault can be detected at any detected level, ie. 2 or all 3 lights on</p>						

1


2

Search

LLS 4000

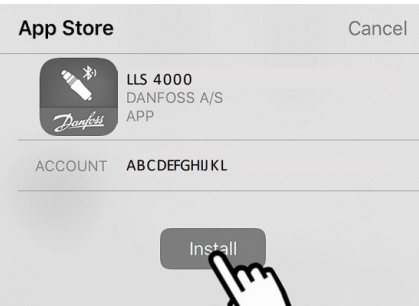
Q App Store

3



download

4

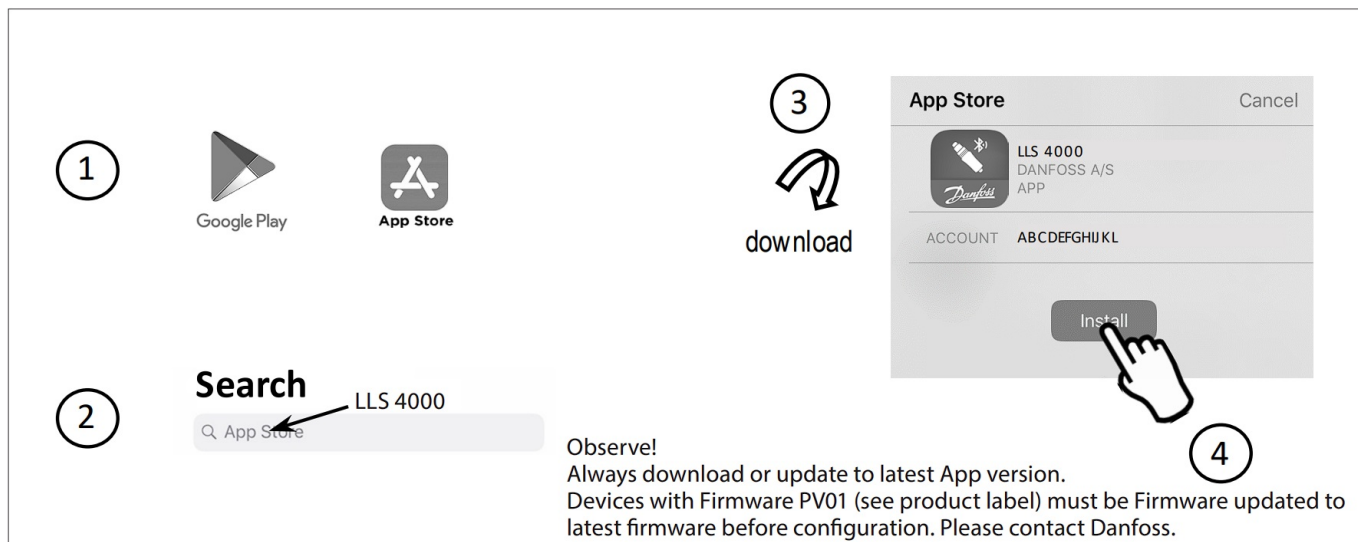


Observe!

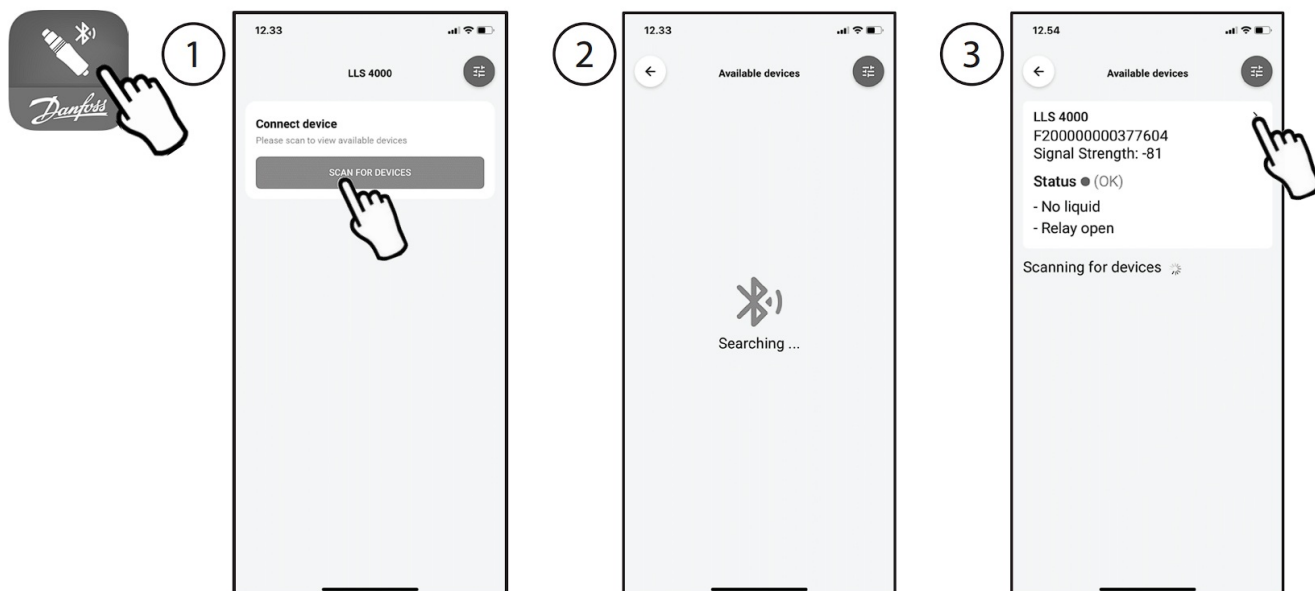
Always download or update to latest App version.

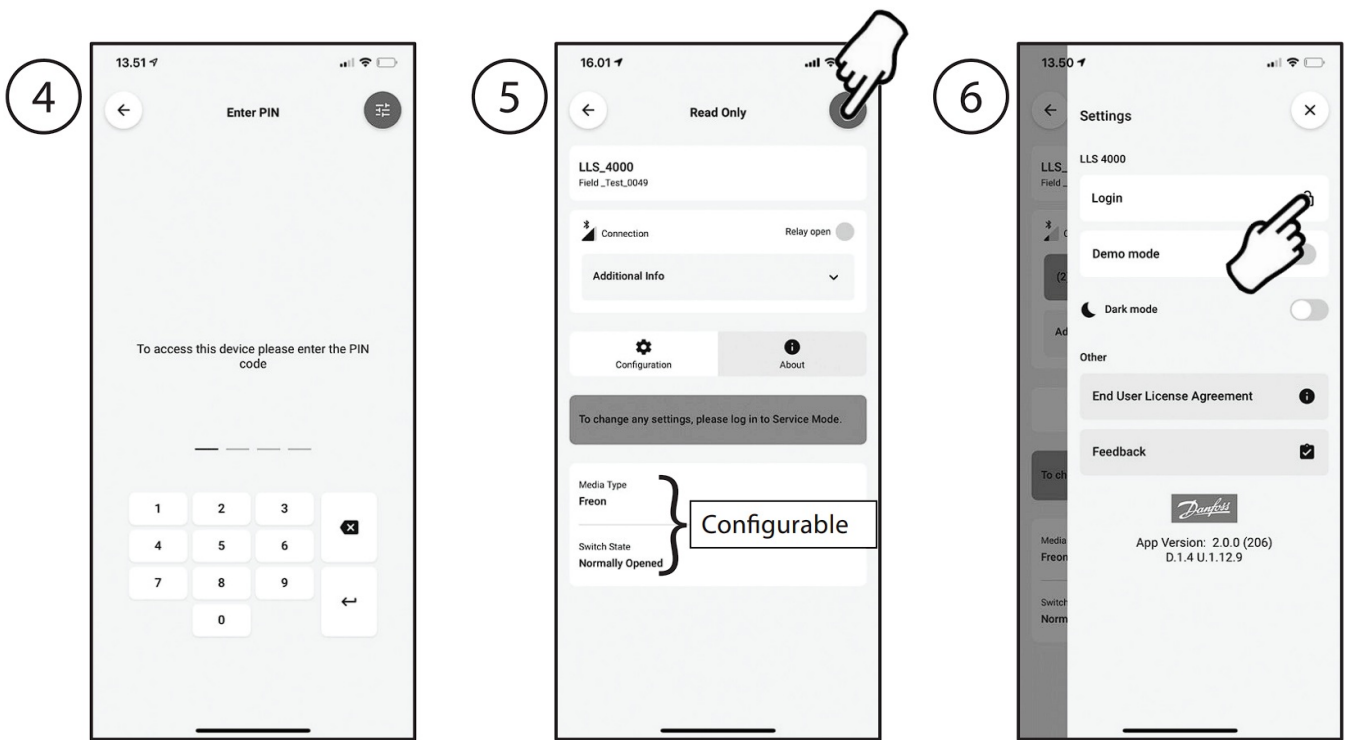
Devices with Firmware PV01 (see product label) must be Firmware updated to latest firmware before configuration. Please contact Danfoss.

## LLS Bluetooth app download



## Configuration





Pin code: 0000



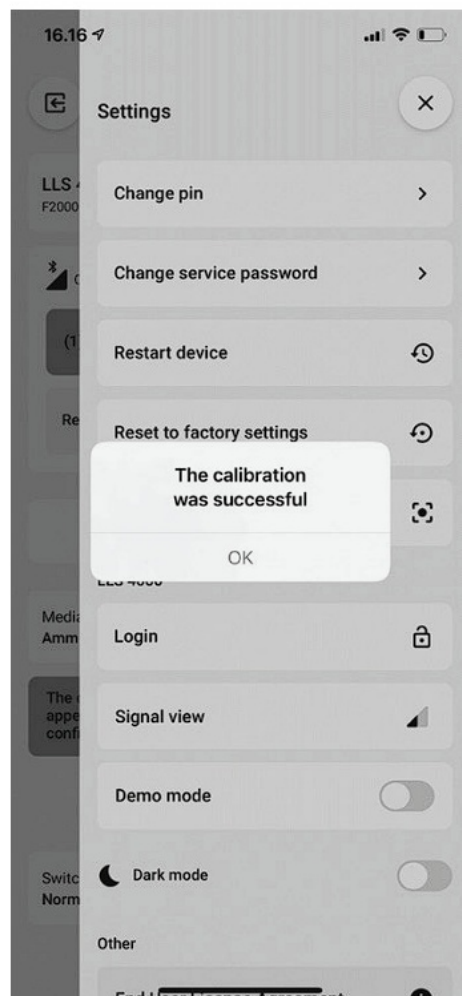
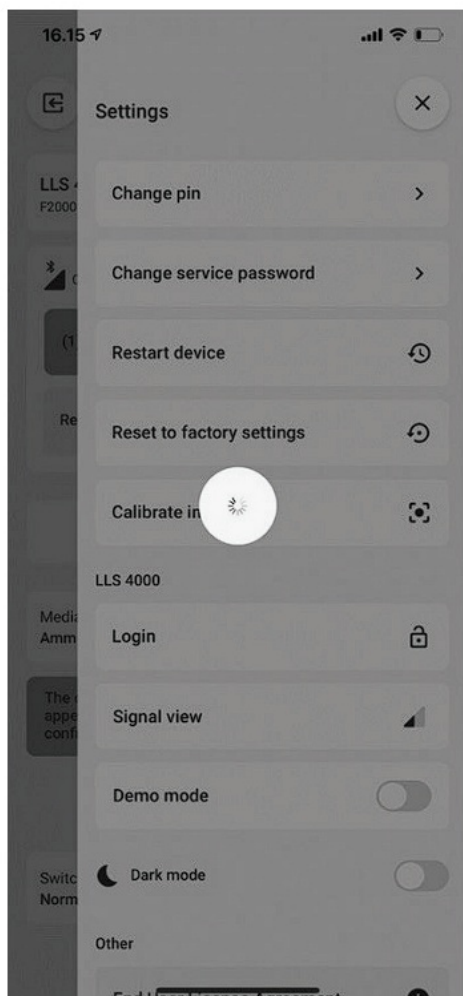
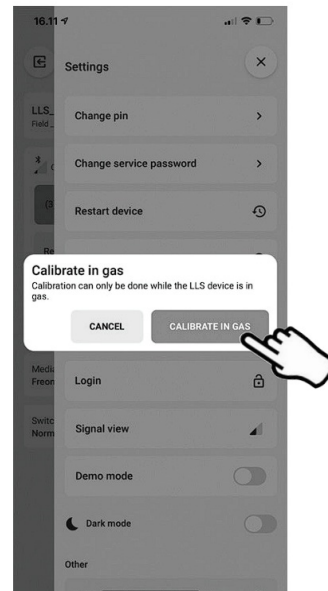
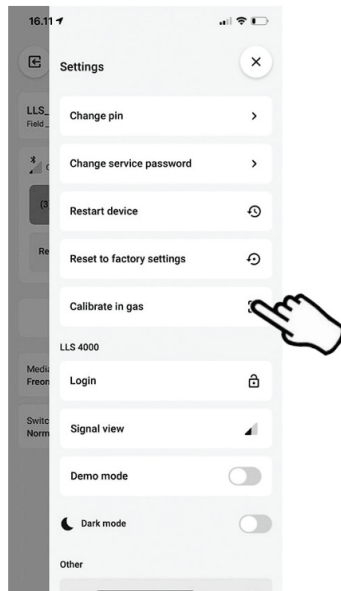
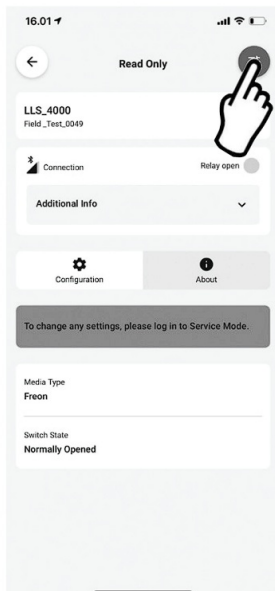
Password: 12131400\*

\* In Service menu a unique password for Service menu can be entered.

Go to menu upper right -> Go login -> Go to settings ->

Go to Service Password -> Enter new Service Password

**Calibration** (To be performed after replacement of Electronic part and always with LLS sensor head in calibration gas)



Read and apply safety instructions contained in product documentation

--- Direct current.

## General warnings/precautions

- Instructions in this document should only be used for electronic part replacement. For device installation refer



to Installation guide/Quickstart document.

- LLS 4000/U electronic part replacement is not allowed on SIL device version.
- LLS 4000/U electronic part should only be used as spare part of LLS4000/U liquid level switch.
- Every use that is not described in this guide is considered incorrect and is not authorized by the manufacturer.
- If any changes regarding installation, media or operating conditions of the device have been done then refer to
- Installation guide/Quickstart document and verify respect of specified values.
- All service and maintenance operations must be performed by qualified personnel.
- Installation must comply with local standards and legislation.\
- Before carrying out any maintenance operations on the device, disconnect the device from the main power supply.
- Before unscrewing the LLS device from the pipe or tank ensure that pipe or tank is empty and not under pressure.
- Liability for injury or damage caused by incorrect use of the device lies solely with the user.
- Depending on the application, the metallic part of the instrument may be hot or cold.
- If media detection or non-detection by the level switch could generate a hazard the SIL version and specific instructions described in the safety manual (periodic proof test) should be used. The SIL safety manual can be downloaded from Danfoss web site or by scanning the QR code below.

**For further documents (Installation guide, Data sheet, etc.) scan this QR code:**

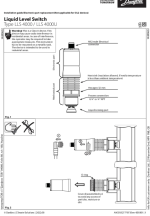
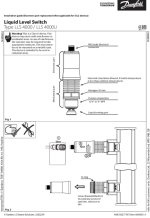


**Danfoss A/S, 6430 Nordborg, Denmark**

[www.danfoss.com](http://www.danfoss.com)



Documents / Resources

	<p><a href="#">Danfoss LLS 4000 Liquid Level Switch</a> [pdf] Installation Guide</p> <p>LLS 4000, LLS 4000U, Liquid Level Switch, Level Switch, Liquid Level, LLS 4000, Switch</p>
	<p><a href="#">Danfoss LLS 4000 Liquid Level Switch</a> [pdf] Instruction Manual</p> <p>LLS 4000 Liquid Level Switch, LLS 4000, Liquid Level Switch, Level Switch</p>

References

-  [Danfoss - Engineering Tomorrow | Danfoss](#)