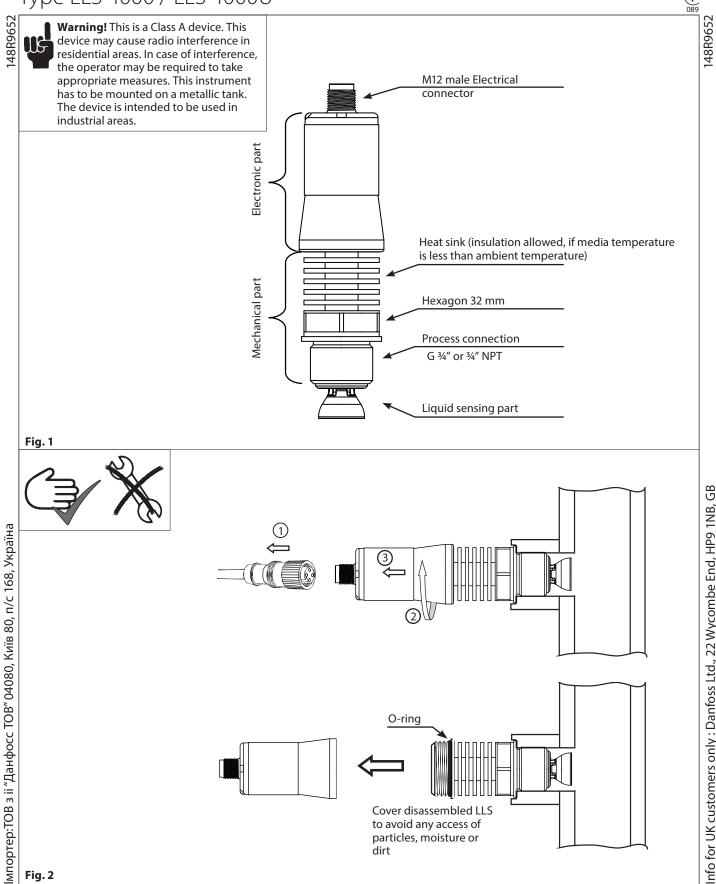
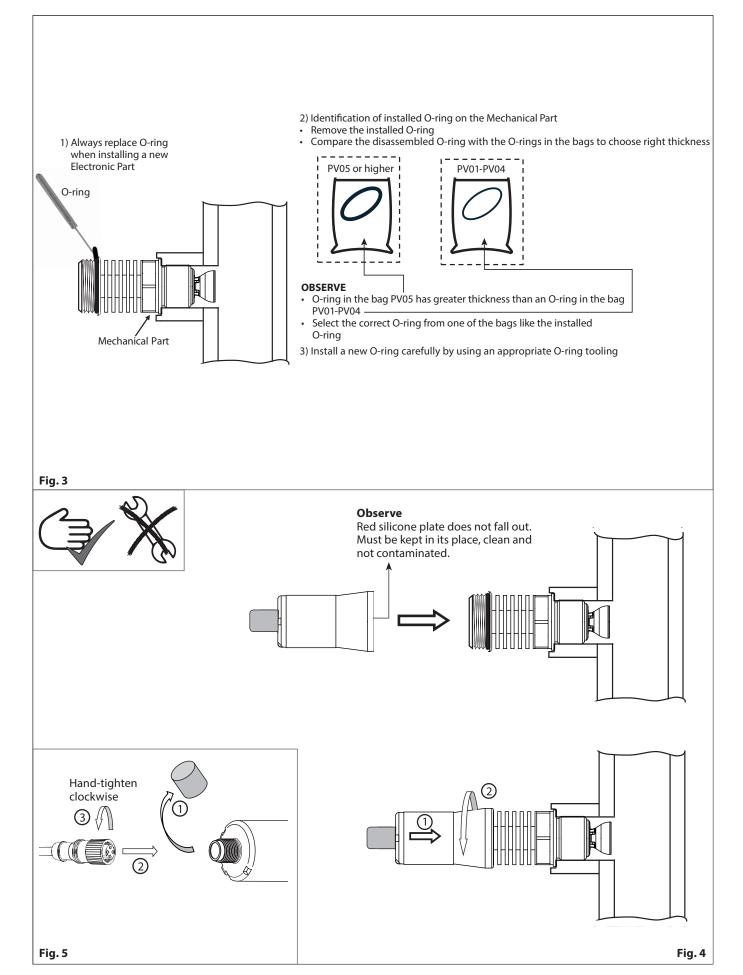


Installation guide/Electronic part replacement (Not applicable for SIL2 devices)

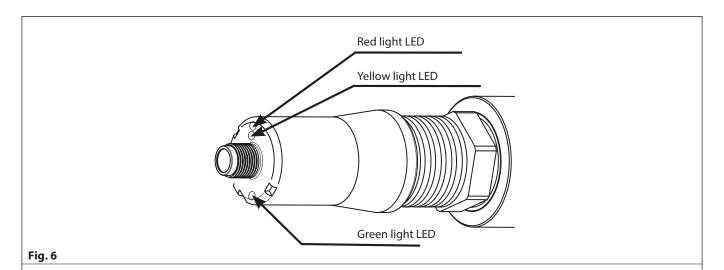
Liquid Level Switch Type LLS 4000 / LLS 4000U







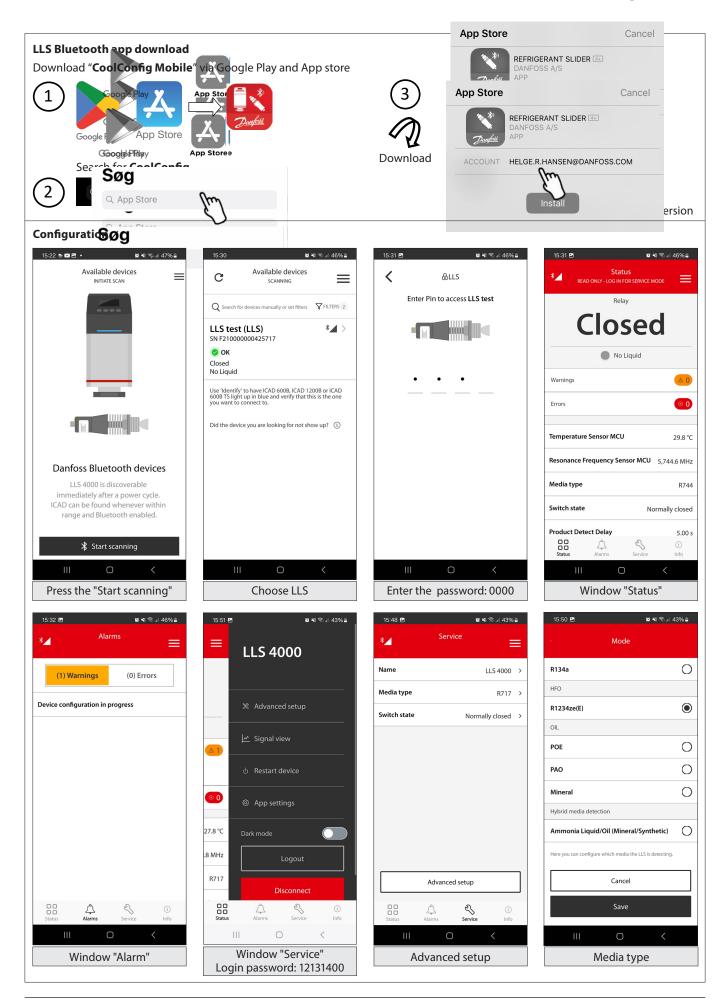




	Level	LLS 4000/4000U NO mode*	LLS 4000/4000U NC mode*	Voltage connected	Level detection	LLS 4000/4000U Fault
				Green LED	Yellow LED	Red LED
High Level sensor			SIL2 fixed			
High Level sensor			configuration		•	
Low Level sensor					•	
Low Level sensor			<u>+</u> _			
Voltage supply outside spec.	-					
LLS 4000/4000U fault**	-				***	•
Green LED ON Yellov			ON	Red LED ON	LLS	een LED Flashing. 4000/4000U nnected to etooth device

^{*} Configuration dependent. Non-SIL2 fully configurable. SIL2 fixed configuration and only applicable for High Level sensor ** For failure types please connect the device to the Bluetooth App, enter fault state mode, and read the failure type *** Fault can be detected at any detected level, ie. 2 or all 3 lights on



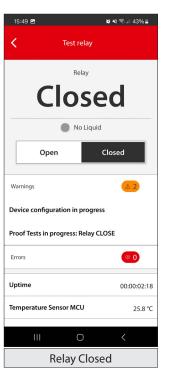




Configuration continued









Calibration

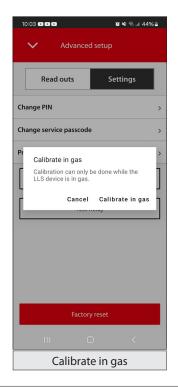
For all media except Ammonia - R717:

- Mandatory that calibration is done, and always in gas.

For Ammonia - R717:

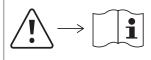
- It is highly recommended that calibration is done in gas.
- Exception when LLS 4000/4000U is used for low level detection:
 If it is absolutely not possible to empty the stand pipe for liquid ammonia, it is acceptable to skip the calibration of the LLS 4000/4000U in gas.











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





Danfoss A/S

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