

Danfoss Cooling | LLS Electronic Level Switch

# It's time to switch to electronic switches

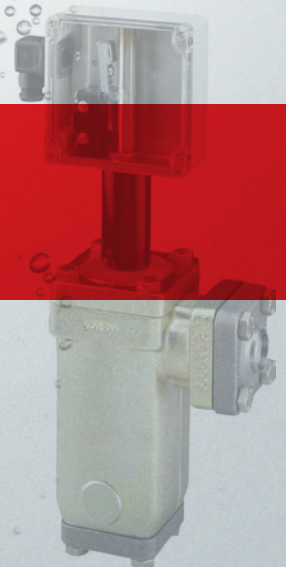
The Danfoss LLS 4000 Electronic Liquid Level Switch is a compact, cost-efficient, and reliable switch for liquid level measurements.

With simple, one-point installation, smart commissioning via Bluetooth, and next-level reliability thanks to its SIL2 compliance, the LLS 4000 makes electronic liquid measuring smarter and more reliable than ever.



**Superior  
reliability**

thanks to  
SIL2 design



# LLS 4000 Electronic Liquid Level Switch

## LLS 4000 Electronic Liquid Level Switch

With the LLS 4000, Danfoss is changing the electronic-liquid-level-switch game entirely. Offering superior reliability, cost-efficiency, and user-friendliness, the LLS 4000 electronic level switch offers superb performance compared to mechanical alternatives – at a competitive price point.

Constructed with the user in mind, the LLS 4000 is easy to install with only one connection point, and replacement of the electronics can be done without emptying the subsystems. The LLS 4000 detects ammonia, HFC, HFO and oil (oil used in ammonia/freon (HFC) systems) – making it a versatile choice for a range of functions. Additionally, Bluetooth connectivity makes commissioning fast and easy using any smart device.

Designed for superior reliability, the LLS 4000 meets the highest safety requirements – Safety Integrity Level 2 – or SIL2 for short. SIL2 is a measurement of the performance and reliability needed for products in applications with high safety standards. The safety classification is a testament of the LLS 4000 Electronic Liquid Level Switch's superior reliability.

### Make safety a competitive parameter

Maintaining the highest level of compliance with industry-wide safety standards is an essential part of maintaining a strong brand and reputation among your customers. By selecting SIL2-approved products, your customers get the reliable, certified components they need to achieve their functional safety goals and ensure reliable performance.

## LLS 4000 Liquid Level Switch

Description	Code no.
LLS 4000 G 3/4 in.	084H6001
LLS 4000 G 3/4 in. SIL	084H6002
LLS 4000U NPT 3/4 in.	084H6003
LLS 4000U NPT 3/4 in. SIL	084H6004

## Spare parts / Accessories

Description	Code no.
Weld connector G .” (incl. alu gasket)	084H6012
Weld connector G .” Stainless Steel (incl. alu gasket)	084H6014
Weld connector NPT .” (excl. teflon tape)	084H6015
LLS 4000/U Electronic top part (not applicable for SIL2 device)	084H6010
M12 Danfoss female straight cable, 2 meter (6.6 ft)	034G2201
M12 Danfoss female straight cable, 8 meter (26.2 ft)	034G2200
LLS 4000/U Inspection sealing kit	080Z0053

## AKS 38 Retrofit

Description	Code no.
LLS 4000 Retrofit AKS 38 kit incl. 1 x LLS 4000 G .”	148H3504
AK-PS 075, 0.75 A / 100-240 V 50/60 Hz Power Supply	080Z0053

*LLS 4000 Electronic SIL not available as spare part.  
It has to be ordered as complete device due to SIL2 requirements.*

## Benefits



### Compact solution

- One product that can detect Ammonia and HFC
- Easy to install with only one connection point



### Easy Commissioning

- Bluetooth-enabled
- Configure media and NO/NC settings with smartphone



### SIL2-certified device available

- Hardware redundancy on processor and relay
- Auto diagnostics and 2 out of 2 verification of signals



### Easy replacement

- No need to empty the subsystem when replacing electronics
- Product design split into refrigeration and electronic parts