

Product Information NSL-F-02, NSL-FR-02

**FOOD** 

# Potentiometric level sensor NSL-F(R)-02 double rod design

## Range of application

50069 / 1.10 / 2025-01-14 / MH / EU

- · Continuous level measurement in non-metallic vessels
- · Level measurement of foaming media
- $\cdot$  Minimum product conductivity typically from 50  $\mu\text{S/cm}$  (available on request for lower values)
- · Hygienic substitute for float sensors

## **Application examples**

- · Process such as ballance tanks and fillers
- · Level measurement in storage vessels
- · Level monitoring in pressurized vessels

## Hygienic design/Process connection

- · Hygienic process connection with CLEANadapt
- · All wetted materials are FDA-conform
- · Sensor completely made of stainless steel
- · Complete overview of process connections: see order code
- · The Anderson-Negele CLEANadapt system offers a flow-optimized, hygienic and easily sterilizable installation solution for sensors.

## **Features**

- · CIP-/SIP-cleaning up to 143 °C (289 °F) / max. 120 minutes
- · Protection class IP 69 K (with cable connection)
- · Short response time for precise measured values with fast level changes
- Due to the potentiometric measuring principle, no new adjustment is necessary when changing the medium
- · Insensitive to adhesion
- · Adjustment of the display by means of the twistable sensor head
- · Current signal for measurement range, dry signal and error signal adjustable
- · Display module Simple User Interface (SUI) and Large User Interface (LUI)
- · Remote version with cable length up to 30 m
- · Add-On Instructions are available at www.anderson-negele.com/aoi

# Head unit remote version (HUR)



## Communication





## Government-funded

Supported by:



on the basis of a decision by the German Bundestag



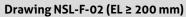
NSL-F-02

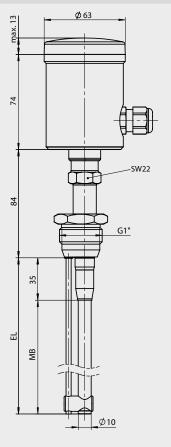


## Note

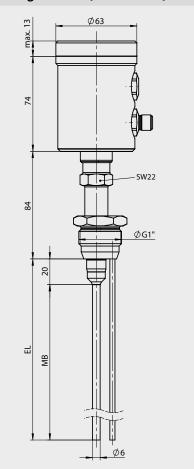


This product information is a supplement to Product Information NSL-F-00. Except for the rod length of 200 mm up to max. 1500 mm, the NSL-F-02 is identical to the NSL-F-00. The data, instructions and other information provided in Product Information NSL-F-00 also apply to this sensor variant.

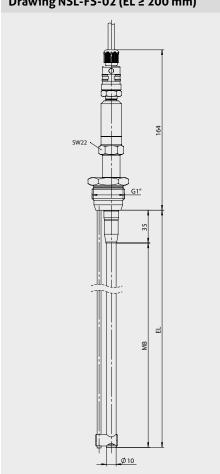




Drawing NSL-F-02 (EL < 200 mm)



Drawing NSL-FS-02 (EL ≥ 200 mm)



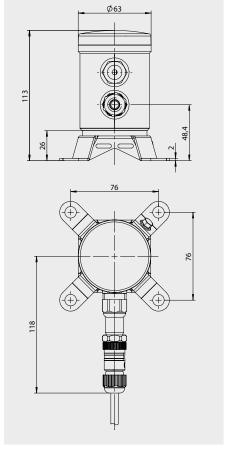
NSL-F-02 with insulation at top (EL ≥ 200 mm)



NSL-F-02 (EL < 200 mm)



HUR | Head unit remote version



Order Code FOOD

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### Order code NSL-FR-02 Potentiometric level sensor, double rod design - remote version, remote cable must be ordered separately Rod length EL 0050... In steps of 10 mm, intermediate sizes at extra charge 1500 Rod diameter 06 Ø 6 mm, up to rod length 199 mm 10 Ø 10 mm, from rod length 200 mm **Process connection** CLEANadapt G1" hygienic, sensor eccentric **S21** TC1 Tri-Clamp 11/2" TC2 Tri-Clamp 2" **T25** Tri-Clamp 21/2" TC3 Tri-Clamp 3" V25 Varivent type F, DN 25 V40 Varivent type N, DN 40/50 **Material certificate** No certificate With 3.1 material certificate Installation position 2 Installation from top 4 Installation from bottom 6 Installation from top, 40 mm insulated, only for rod diameter 10 mm Signal module 142 IO-Link and 1x 4...20 mA level **Electrical connection** Cable gland M16x1.5 1x M12 plug, 4 pin output/power supply М 1x M12 plug, 5 pin, wiring according to LN sensor r 1x M12 plug, 5 pin analog output and IO-Link Display X Without display L Large User Interface with display Cap Х Opaque plastic Ρ Clear plastic М Stainless steel without control window W Stainless steel with control window Insulation at rod end ХХ Without insulation Configuration Factory setting Х S Special customer setting NSL-FR-02 / 1500 / 10/ S21/ O/ 2/ 142/ Р/ Х/ Х/ XX/ X

