50069 / 1.9 / 2024-02-26 / MH / EU

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



FOOD

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

Range of application

- · Continuous level measurement in non-metallic vessels
- · Level measurement of foaming media
- Minimum product conductivity typically from 50 µS/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



Large User Interface (LUI)





Communication



NSL-F-02





Note

This product information is a supplement to Product Information NSL-F-00.

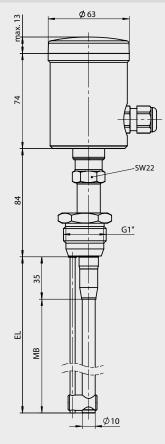
Except for the rod length of 200 mm up to max. 1500 mm, the NSL-F-02 is identical to the NSL-F-00. The data, instructions and other information provided in Product Information NSL-F-00 also apply to this sensor variant.

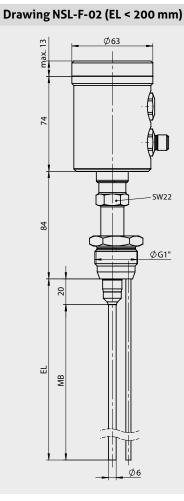
FOOD

Dimensional Drawings



Drawing NSL-F-02 (EL ≥ 200 mm)





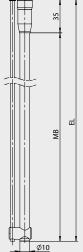
NSL-F-02 (EL < 200 mm)



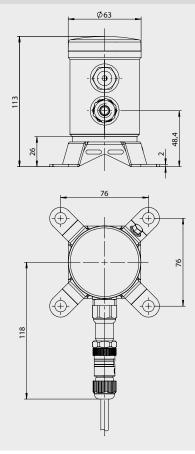
NSL-F-02 with insulation at top (EL ≥ 200 mm)



Drawing NSL-FS-02 (EL ≥ 200 mm)



HUR | Head unit remote version



2

Order Code

3

Order code

NSL-FR-02	Potentiometric level sensor, double rod design - remote version, remote cable must be ordered separately									
	Rod leng 0050 1500		h EL In steps of 10 mm, intermediate sizes at extra charge							
NSL-FR-02 /		Rod 0 06 10	Ø 10 r	nm, up to rod length 199 mm mm, from rod length 200 mm ess connection CLEANadapt G1" hygienic, sensor eccentric Tri-Clamp 1½" Tri-Clamp 2" Tri-Clamp 2½" Tri-Clamp 3" Varivent type F, DN 25 Varivent type N, DN 40/50 Material certificate O No certificate Z With 3.1 material certificate						
				In 2 4 6	Install Signal	ation ation ation . modu IO-I	from f from f ule Link ar Cab 1x N 1x N	nd 1x 4 conne le glan 12 plu 12 plu 12 plu 9 ylay With	mm in: 20 m ection Id M16, Jg, 4 pi Jg, 5 pi Jg, 5 pi Jg, 5 pi Jg, 5 pi User I Opaq Clear Stain Stain	n output/power supply n, wiring according to LN sensor n analog output and IO-Link

FOOD

Order code												
NSL-F-02	Potention	netric l	evel ser	sor, d	louble	e rod des	sign					
	Rod leng 0050 1500	In steps of 10 mm, intermediate sizes at extra charge Rod diameter 06 Ø 6 mm, up to rod length 199 mm										
		10		mm, from rod length 200 mm ss connection CLEANadapt G1" hygienic, sensor eccentric Tri-Clamp 1½" Tri-Clamp 2" Tri-Clamp 2½" Tri-Clamp 3" Varivent type F, DN 25 Varivent type N, DN 40/50								
				Mat O Z	No d	certifica ertificat n 3.1 ma	te	certif	icate			
					Inst 1 2 3 4 5 6	Install Install Install Install only fo Install only fo	lation position Installation from top, head orientation horizontal Installation from top, head orientation vertical Installation from bottom, head orientation horizontal Installation from bottom, head orientation vertical Installation from top, head orientation horizontal, 40 mm insulated, only for rod diameter 10 mm Installation from top, head orientation vertical, 40 mm insulated, only for rod diameter 10 mm Signal module					
						142			1 1 x 4	20 m	A level	
								ctrical connectionCable gland M16x1.51x M12 plug, 4 pin output/power supply1x M12 plug, 5 pin, wiring according to LN sensor1x M12 plug, 5 pin analog output and IO-LinkDisplayX				
								L Lai Ca X P M	Large Cap X P M	e User I Opaq Clear Stain	Interface with small display nterface with display ue plastic plastic less steel without control window	
									W		less steel with control window ation at rod end Without insulation	
											Configuration X Factory setting S Special customer setting	
NSL-F-02 /	1500/	10/	S21/	0/	2/	142 /	P /	Х/	Х/	XX /	X	