OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

ANDERSON NEGELE - CAPACITIVE LEVEL SWITCH - FOOD NCS

NCS-01, NCS-02, NCS-11, NCS-12, NCS-L

NCS-02

- Capacitive limit switch
- Measuring range Dk ≥ 20
- Operating pressure max 10 bar
- Approvals: FDA; EHEDG; 3-A

PRODUCT DESCRIPTION

Application/specified usage

Limit detection of media with low or no water content like syrup, fruit concentrates, alcohols and oils with a dielectric constant εr (Dk) ≥ 2

Please refer to the image below for ordering information.

Order code

NCS-01	(measurement range for watery media with Dk ≥ 20; CLEANadapt M12)
NCS-11	(measurement range for watery media with Dk ≥ 20; CLEANadapt G1/2")
NCS-L-11	(measurement range for watery media with Dk ≥ 20; CLEANadapt G1/2")
NCS-02	(measurement range for critical media with Dk ≥ 5; CLEANadapt M12)
NCS-12	(measurement range for critical media with Dk ≥ 2 (e.g. Oil, Fat, ...); CLEANadapt G1/2")
NCS-L-12	(measurement range for critical media with Dk ≥ 2 (e.g. Oil, Fat, ...); CLEANadapt G1/2"

Note: Only with insertion length 18 mm and 50 mm available!)

Insertion length EL

18	(insertion length 18 mm)
50	(insertion length 50 mm)
100	(insertion length 100 mm / only selectable for NCS-L-11)
150	(insertion length 150 mm / only selectable for NCS-L-11)
200	(insertion length 200 mm / only selectable for NCS-L-11)
250	(insertion length 250 mm / only selectable for NCS-L-11)
xxx	special length (only between 60...250 mm selectable!)

Pay attention for the information to belated shortage of sensor rod on page 3!

Output

PNP	(standard, active 24 V DC)
NPN	(NPN)

Temperature version (see diagram on page 2)

X	(standard, for process temp. up to 100 °C, CIP/SIP 143 °C / 120 min)
H	(high temperature version with spacer, for process temperatures up to 143 °C; not for NCS-L11 and NCS-L-12)
D	(heater deactivated at higher ambient temperature)
HD	(for process temperatures up to 143 °C at higher ambient temperature, with spacer and heater deactivated; not for NCS-L11 and NCS-L-12

Status-LED

X	(without)
KF	(window in the lid, LED visible from outside)
KKF	(lid with cone-shaped window, LED visible from outside)

Electrical connection

X	(cable gland M16x1.5)
M12	(M12-plug 1.4305)

NCS-01 / / PNP / H / KF / M12

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TECHNICAL DATA

Approvals	3-A, FDA
Area	Food
Area of apllication	Food
IP class	IP67, IP69K
Length	9 mm
Material	Stainless steel
Material of connection	Stainless steel 1.4305
Material of sensor housing	Stainless steel 1.4305
Material of wetted parts	PEEK, Stainless steel 316L
Mounting	Direct Mount
Pressure resistance max	10 bar
Supply voltage dc max	32 V DC
Supply voltage dc min	16 V DC
Surface finish	0.8 µm Ra
Temperature of media from	0 °C
Temperature of media to	125 °C

Weight	500 g