

NZJ



- Installation length: 100 ... 540 mm
- p_{max} : 16 bar; t_{max} : 100 °C
- Viscosity: max. 50 mm²/s
- Connection: G $\frac{1}{4}$, $\frac{1}{4}$ " NPT (male) union nut
- Material: stainless steel (1.4301/1.4404) / aluminium
- Local indication without auxiliary power
- Limit contacts

N2



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Description

The NZJ type glass tube level indicator is applicable for the indication of liquid level in small standing or lying round containers used in pharmaceutical and chemical industries.

The loads occurring at the installation are absorbed by the outer armature, thus the glass tube is protected against breaking. The outer armature also protects the glass tube against the mechanical impacts that may occur following the installation.

Installation length means the distance between the horizontal centre lines of the two threaded stubs, that is minimum 100 mm, and maximum 540 mm.

The bottom, and top sealing of the glass tube is by two O-rings each, the material of which is to be chosen to be chemically compatible with the liquid measured. Standard sealing material is NBR, whereas FPM, EPDM or PTFE are available on request.

The level indicator may be furnished with capacitive level sensors as requested ATEX version, which monitor the Min./Max. level or any level along the scale. The scale can be printed on a foil and to be attached to the glass tube.

Areas of Application

- Pharmaceutical
- Chemical
- Water treatment
- Laboratories
- Small storage tanks for liquids on any field
- Gravity tanks
- Capacity tank

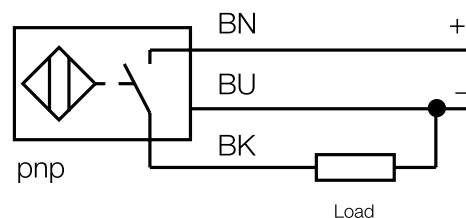
Technical Details

Installation length:	100 ... 540 mm
Scale length (visible length):	60 ... 500 mm
Material:	stainless steel (1.4301/1.4404)/Alu
Gasket:	NBR, FPM, EPDM, PTFE
Process connection:	G $\frac{1}{4}$, $\frac{1}{4}$ " NPT (male) union nut
Scale material:	plastic foil
Max. pressure:	16 bar
Max. temperature:	100 °C (with switch: +70 °C)
Density:	any (no float used)
Max. viscosity:	50 mm ² /s

Limit contacts

Type:	capacitive sensor
Voltage:	10 ... 30 V _{DC}
Ambient temperature:	-25 ... +70 °C
Storage temperature:	-25 ... +80 °C
DC rated current:	≤200 mA
Non-actuated current consumption:	≤15 mA
Residual current:	≤0,1 mA
Voltage drop at I _{max} :	≤ 1,8 V
Switching indication:	LED
Adjustment:	fine adjustment via potentiometer
Output function:	3-wire, N/O contact, PNP
Housing material:	plastic, PA12-GF30
Electrical connection:	cables
Cable quality:	Ø 4, LIFYY, PVC, 2 m
Cable cross section:	3 x 0,25 mm ²
Protection:	IP67
ATEX version:	Ex II 3G, Zone 2 Ex II 3D, Zone 22

Wiring diagram



Materials

Code	Tube	Body	Connection	Seal	Side Flat
NZJ-A	borosilicate glass	aluminium	1.4404	NBR	1.4301
NZJ-K		stainless steel 1.4301		FPM	
NZJ-S		stainless steel 1.4404		FPM	

Order Details (Example: NZJ-K 1 1 G2 0 0)

Model/Version	Measuring scale	Seals	Connection	Switch	Options
NZJ-A = aluminium NZJ-K = st. steel 1.4301 NZJ-S = st. steel 1.4404	0 = without 1* = plastic foil on measuring tube (2 mm division) 2* = plastic foil on measuring tube (% division)	1 = FPM 3 = EPDM 4 = NBR 5 = PTFE	G2 = G ¼ male N2 = ¼" NPT male	0 = without switch 1 = 1 x N/O 2 = 2 x N/O A = 1 x N/O ATEX B = 2 x N/O ATEX	0 = without Y = customer specification

* Installation length «L» to be specified in writing (scale length = L-40 mm).
0% and 100% level are relative to the bottom and top connection.

Dimensions [mm]

