

Micro Bypass Level Indicator

with Switch Option



measuring
•
monitoring
•
analyzing

NZJ



- Installation Length: 4" ...22"
- p_{\max} : 230 PSI
- t_{\max} : 210 °F
- Viscosity: Max. 50 mm²/s
- Connection: 1/4" NPT, G $\frac{1}{4}$ (Male) Union Nut
- Material: Stainless Steel (304/316) / Aluminum
- Local Indication without Auxiliary Power
- Limit Contacts



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Description

The KOBOLD NZJ glass tube bypass level indicator indicates liquid level in small containers and tanks. It is engineered with durability in mind, as the glass tube is protected from damage by the stainless steel outer armature. The glass tube is sealed by two O-rings each, on both the top and bottom. Sealing materials are NBR, FKM, EPDM, or PTFE for compatibility with various media. The NZJ is available without a scale, or with an incremental inch, mm, or percentage scale attached to the glass measuring tube. It can also be fitted with capacitive level switches which monitor the level along the scale. Installation length refers to the distance between the horizontal center lines of the two threaded stubs, with a minimum of 4 inches and a maximum of 22 inches.



Areas of Application

- Pharmaceutical
- Chemical
- Water Treatment
- Laboratories
- Small Storage Tanks for Liquids
- Gravity Tanks
- Capacity Tank

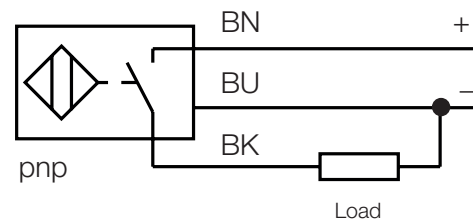
Technical Details

Installation Position:	Vertical
Installation Length:	4" ...22"
Scale Length (Visible Length):	2.4" ...20.4"
Material:	Stainless Steel (304/316)/ Aluminum
Gasket:	NBR, FKM, EPDM, or PTFE
Connection:	1/4" NPT, G1/4 (Male) Union Nut
Scale Material:	Plastic Foil
Max. Pressure:	230 PSIG
Ambient Temperature:	-13...158 °F
Media Temperature:	32...212 °F (without switch) 32...158 °F (with switch)
Density:	Any (No Float Used)
Max. Viscosity:	50 mm ² /s

Limit Contacts

Type:	Capacitive Sensor
Operating Voltage U_B:	10 ... 65 Vdc
Short Circuit Protection:	Yes
Voltage Drop at U_D:	≤ 1.8 V
Operating Current I_L:	≤ 200 mA
No-Load Supply Current I_0:	≤ 15 mA
Output Function:	3-wire, N/O Contact, PNP
Connection Type:	2 m PVC Cable
Core Cross Section:	3 x 0.34 mm ²
Fine Adjustment:	Via Potentiometer
Switching Indication:	LED, Yellow
Protection:	IP67

Wiring Diagram



Materials

Model	Tube	Body	Connection	Seals	Side Plates
NZJ-A	Borosilicate Glass	Aluminum	316 Stainless Steel	FKM	304 Stainless Steel
NZJ-K		304 Stainless Steel		EPDM	
NZJ-S		316 Stainless Steel		NBR PTFE	

Order Details (Example: NZJ-K 1 1 N2 00 0)

Model/Version	Measuring Scale	Seals	Connection	Switches ²⁾	Options
NZJ-A.. = Aluminum NZJ-K.. = 304 Stainless Steel NZJ-S.. = 316 Stainless Steel	..0.. = Without ..1 ¹⁾ .. = Plastic Foil on Measuring Tube (2 mm Division) ..2 ¹⁾ .. = Plastic Foil on Measuring Tube (% Division)	..1.. = FKM ..3.. = EPDM ..4.. = NBR ..5.. = PTFE	..N2.. = 1/4" NPT ..G2.. = G 1/4 Male	..00 = Without Switch ..1D ³⁾ = 1x N/O, PNP ..2D ³⁾ = 2x N/O, PNP ..nD ³⁾ = nx N/O, PNP ..1S ⁴⁾ = 1x N/O, PNP ..2S ⁴⁾ = 2x N/O, PNP ..nS ⁴⁾ = nx N/O, PNP	0 = Without Y = Customer Specification

¹⁾ Installation length «L» to be specified in writing (scale length = L - 1.6"). 0% and 100% level are relative to the bottom and top connection.

²⁾ Capacitive Sensors

³⁾ Ideal for water, water-based solutions, and solvent-based liquids

⁴⁾ Ideal for oils, greases, lubricants, inks, acids, sauces, water-based alkalis, and cleaning agents

Dimensions

