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 mm^2/s
- Connection: 1/4" NPT, G¼ (Male) Union Nut
- Material: Stainless Steel (304/316) / Aluminum
- Local Indication without Auxiliary Power
- Limit Contacts

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KOBOLD Instruments, Inc.
1801 Parkway View Drive
Pittsburgh, PA 15205
Main Office:
1.800.998.1020
1.412.788.4890
info@koboldusa.com
www.koboldusa.com

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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 one or two level switches. ATEX versions are also available. 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, G¼ (Male) Union Nut
Scale Material:	Plastic Foil
Max. Pressure:	230 PSIG (ATEX version 145 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

Models without ATEX

Type:	Capacitive Sensor
OperatingVoltage U_B:	10...65 V_{DC}
Short Circuit Protection:	Yes
Voltage Dropat 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:	IP65

Models with ATEX

Type:	Capacitive Sensor
Operating Voltage:	Nom 8.2 V_{DC}
Non-actuated Consumption:	≤ 1.2 mA
Actuated Consumption:	≥ 2.1 mA
Output Function:	2-wire, NAMUR
Connection Type:	2 m PVC Cable
Core Cross Section:	2 x 0.34 mm^2
Fine Adjustment:	Via Potentiometer
Switching Indication:	LED, Yellow
Protection:	IP67
ATEX Version:	Ex II 2G Ex ia IIC T6 Gb Ex II 1D Ex ia IIIC T115°C Da

Materials

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

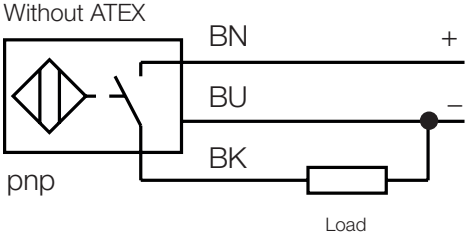
Order Details (Example: **NZJ-K 1 1 N2 00**)

Model / Version	Measuring Scale	Seals	Connection	Switch
NZJ-A.. = Aluminum **NZJ-K..** = 304 Stainless Steel **NZJ-S..** = 316 Stainless Steel	**..0..** = without **..1*..** = Plastic Foil on Measuring Tube (2 mm Division) **..2*..** = Plastic Foil on Measuring Tube (% Division) **..3*..** = Plastic Foil on Measuring Tube (1/8" Division)	**..1..** = FKM **..3..** = EPDM **..4..** = NBR **..5..** = PTFE	**..N2..** = 1/4" NPT **..G2..** = G ¼ Male	**..00** = without switch **..10** = 1x N/O **..20** = 2x N/O **..A0** = 1x ATEX **..B0** = 2x ATEX

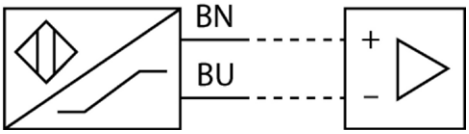
* Installation length «L» to be specified in writing (scale length = L - 1.6").
0% and 100% level are relative to the bottom and top connection.

Wiring Diagrams

Without ATEX



ATEX Version



Dimensions