

### LN3000-Float Level Sensor With Digital Display

- ▶ 4 digit LED digital display
- ▶ All-metal housing
- ▶ PNP/NPN programmable
- ▶ 3-wire 4...20mA; 3-wire 0...5V programmable
- ▶ Rotatable indicator
- ▶ Stainless steel wetted parts

With liquid level fluctuation, a magnetic float triggers the switch inside tube, which changes the number of connected resistors. This changing of resistance is converted to standard electrical signal output. All-metal housing with highlight LED display, dual-key design, user friendly menu, multiple process connections, 330° rotatable indicator.

### Specifications

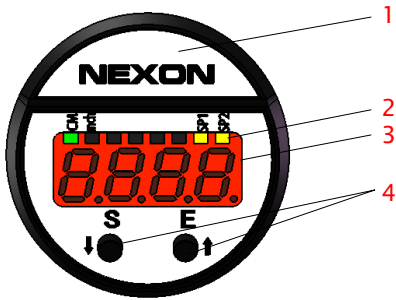
<b>Measuring Range (Rod length L)</b>	250mm/ 500mm/ 750mm/ 1000mm/1250mm/1500mm/2000mm
<b>Applicable Medium</b>	Corrosive liquids compatible with 304 stainless steel
<b>Pressure Rating</b>	20bar
<b>Medium Density</b>	≥0.7g/cm <sup>3</sup>
<b>Power Supply</b>	12...30Vdc
<b>Current Consumption</b>	≤30mA (power supply 24Vdc, no-load)
<b>Switching Output</b>	
Output	Push-pull(compatible with PNP/NPN);NC/NO configurable
S1,S2 Output Current	<500mA
Voltage Drop	<1V
<b>Current Analog Output</b>	
Output	3-wire 4...20mA
Load RA (Ω)	RA≤500Ω
<b>Voltage Analog Output</b>	
Output	3-wire 0...5V
Load RA (Ω)	RA>10KΩ
<b>Linearity</b>	≤±1.5% of F.S.
<b>Wiring Protection</b>	Reverse polarity, overvoltage and short-circuit
<b>Display</b>	
Design	Red 4-bit 8mm high brightness 7-segment digital LED
Display Range	-1999...9999
<b>Temperature</b>	
Operating/Medium	-20...85℃
Storage	-20...+100℃
<b>Material</b>	
Display Head	Zinc alloy
Housing	304 stainless steel
Process Connection Tube/Float	304 stainless steel
<b>Protection Class</b>	IP67
<b>Electrical Connection</b>	M12×1 plug
<b>Process Connection</b>	G2 external thread



### Applications

- ▶ Petrochemical
- ▶ Food/pharmaceutical industry
- ▶ Power plant
- ▶ Water treatment
- ▶ Boiler
- ▶ Papermaking

Set Panel



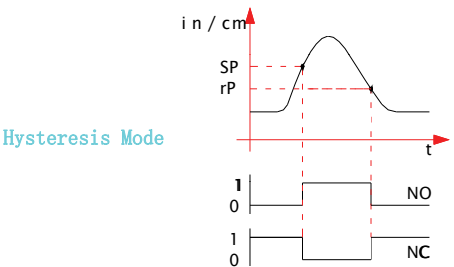
- 1 - LOGO
- 2 - 8 state lights
- 3 - 4-digit LED display window
- 4 - Keys

<b>S</b> + <b>E</b>	Press and hold 2 seconds to enter setting mode/verification
<b>S</b>	Shift down the menu/change values
<b>E</b>	Shift up the menu/change the setting bit

Functional specifications

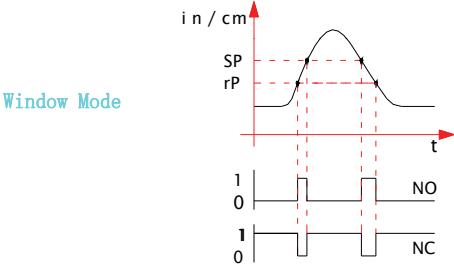
Hysteresis Mode

The hysteresis keeps the switching output stable if the measured value fluctuates around the setpoint. Output switches when rising measured value reaches set point (SP1); As measured value falls, the output switches back only if the reset point (rP1) is reached.



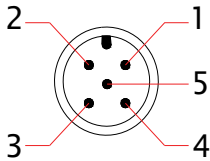
Window Mode

The window function allows the monitoring of a defined range. If the measured value is between set point (SP1) and reset point (rP1), the output is activated (NO), otherwise it is deactivated (NC).



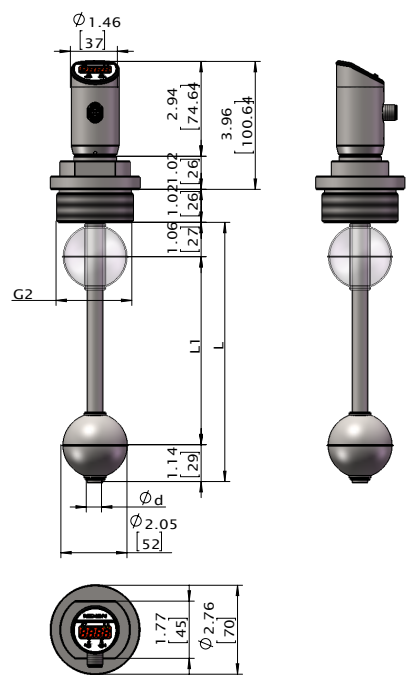
Wiring

Signal	Plug	Cable
U+	1	Brown
U-	3	Blue
Switching output S1	4	Black
Switching output S2	2	White
Analog output (Current or Voltage)	5	Gray



PNP output	NPN output
<p>2x PNP</p>	<p>2x NPN</p>
<p>2x PNP + analog output</p>	<p>2x NPN + analog output</p>

Dimensions in inches (mm)



Model Number

OrderNO.	Type	Rod Length mm	Effective Length mm	Resolution mm	Output type mA/V
LN0025	LN3000/21GSM250C	250	190	8	2 switch output Current Output 3-wire (4...20mA)
LN0050	LN3000/21GSM500C	500	440	8	
LN0075	LN3000/21GSM750C	750	690	8	
LN0100	LN3000/21GSM1000C	1000	940	15	
LN0125	LN3000/21GSM1250C	1250	1190	15	
LN0150	LN3000/21GSM1500C	1500	1440	15	
LN0200	LN3000/21GSM2000C	2000	1940	15	
LN1025	LN3000/22GSM250C	250	190	8	2 switch output Voltage Output 3-wire (0...5V)
LN1050	LN3000/22GSM500C	500	440	8	
LN1075	LN3000/22GSM750C	750	690	8	
LN1100	LN3000/22GSM1000C	1000	940	15	
LN1125	LN3000/22GSM1250C	1250	1190	15	
LN1150	LN3000/22GSM1500C	1500	1440	15	
LN1200	LN3000/22GSM2000C	2000	1940	15	