

**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 high-brightness LED display, dual-key design, user-friendly menu, multiple process connections, 330° rotatable indicator.



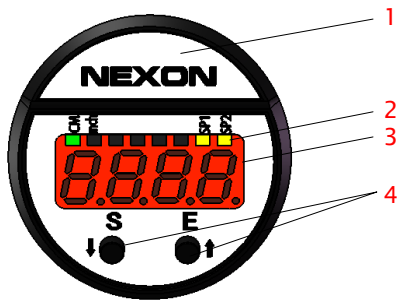
**Specifications**

<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>	M12x1 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

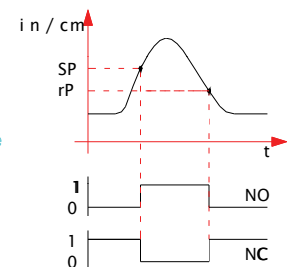
<b>S</b> + <b>E</b>	Press and hold 2 seconds to entering setting mode/verification
<b>S</b>	Shift down the menu/change values
<b>E</b>	Shift up the menu/change the setting bit

### 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 (SP); As measured value falls, the output switches back only if the reset point (rP1) is reached.

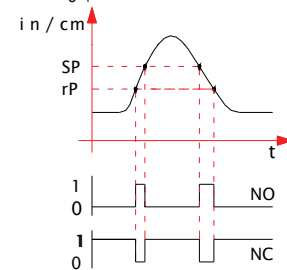
Hysteresis Mode



#### Window Mode

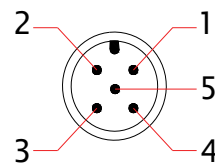
The window function allows the monitoring of a defined range. If the measured value is between set point (SP1) and reset point (rP1), the output is activated (NO), otherwise it is deactivated (NC).

Window Mode



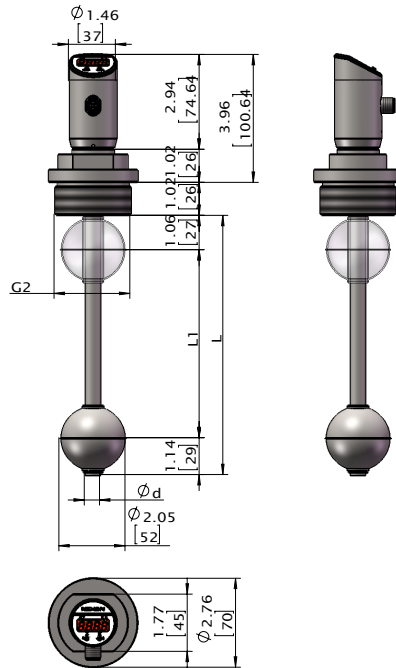
### Wiring

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	
2x PNP		2x NPN	
2x PNP + analog output		2x NPN + analog output	

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	