HNL20-B

LIQUID LEVEL/TEMPERATURE INTEGRATED SENSOR



PRODUCT FEATURES

1. Easy to read, sturdy LED digital display
2. Brand new design, multifunctional application
3. Flexible configuration, output PNP/NPN switching
4. Intelligent menu, adjustable transmission output range
5. The switch points are continuously adjustable and easy to use
6. Temperature/liquid level can be configured with 4 switches and 2 analog signal outputs to choose from

PRODUCT APPLICATION

Machine tool

Hydraulic lubrication system

Machinery manufacturing

Automation equipment

PRODUCT INTRODUCTION

The HNL20-B integrated level/temperature sensor can simultaneously output multiple signals, meeting the needs of liquid level and temperature monitoring in various locations while reducing the number of openings in the user's enclosure. Its simplified, miniaturized design and attractive appearance meet equipment upgrade needs (PNP/N-PN/0...20mA/4...20mA), and it features a full-range scalable analog output.

It allows for flexible installation according to different environments, allowing the display and electrical output interfaces to be adjusted to meet the specific requirements of the site, and can be flexibly applied according to cable routing.

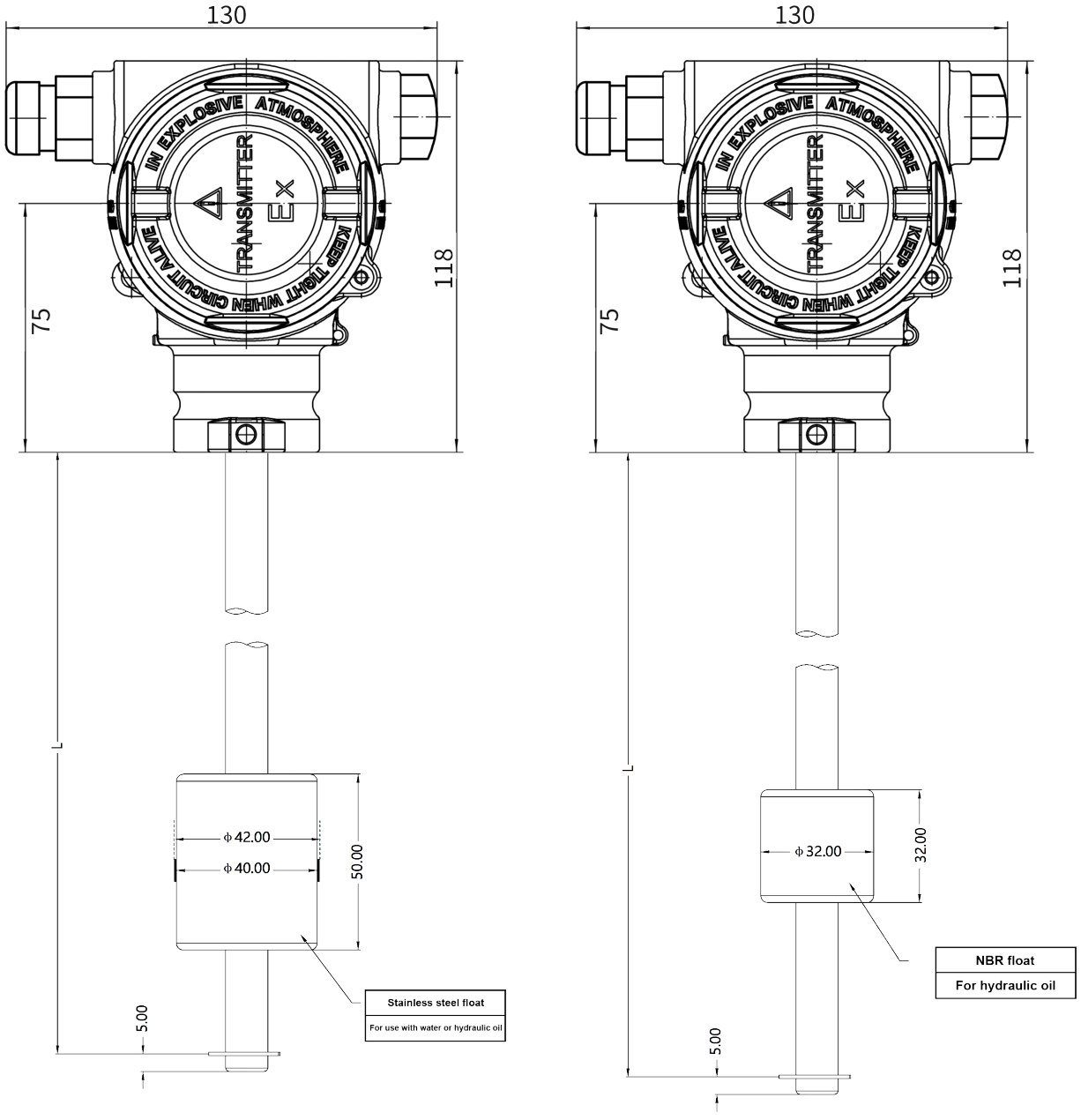
TECHNICAL PARAMETER

NAME	SPECIFICATION
Power supply	DC18....30V
Measurement range	(0-2m) optional
Current consumption	Maximum 600mA, including switch current
Electrical connection	M12*1-5pin/8pin aviation cable
Safety	Short circuit protection, reverse polarity protection
Insulation	DC500V
Overvoltage	DC36V
On-time	<3s
Switching function	PNP/NPN, NO/NC can be switched freely
Switching current	Maximum 400mA
Response time	Switch output/analog signal (0.2-5s)
Load	Analog signal 4.20mA ≤ 500Ω
Service life	1 million switching cycles
Measurement accuracy	10mm/5mm
Measuring range	Adjustable (factory default -20..80°C)
Medium temperature	-20..85°C
Ambient temperature	-20..80°C
Storage temperature	-20..65°C
Relative humidity	45...75%
Vibration resistance	20g, 10...2000Hz (compliant with IEC 60068-2-6)
Impact resistance	50g, 6ms (compliant with IEC 60068-2-27)
Protection rating	IP67
Wetted parts	304 connecting rod, NBR or 304 stainless steel float
Meter housing	POM engineering plastic

OUTPUT SIGNAL

MEASUREMENT	SWITCH OUTPUT		ANALOG OUTPUT
level	OUT1	OUT2	4...20mA/0...20mA 0-10v/10-0v
	PNP/NPN	PNP/NPN	
Temperature	OUT3	OUT4	4...20mA/0...20mA 0-10v/10-0v
	PNP/NPN	PNP/NPN	

PRODUCT SIZE (MM)



HNL20-B LIQUID LEVEL/TEMPERATURE INTEGRATED SENSOR SELECTION TABLE

NAME	CODE	CODE DESCRIPTION
Measurement range	0100	100mm
	0150	150mm
	0200	200mm
	0250	250mm
	0300	300mm
	0350	350mm
	0400	400mm
	0450	450mm
	0500	500mm
	0550	550mm
	0600	600mm
	0650	650mm
	0700	700mm
	0750	750mm
	0800	800mm
	0850	850mm
	0900	900mm
	0950	950mm
	1000	1000mm
Float type	N	NBR float (for oil)
	S	304 float (for water)
Measurement resolution	-	10mm (default)
	5	5mm
Output signal	SA	Four way switch quantity+two way analog quantity (8-core aviation plug)
	S3	Three way switch quantity (5-core aviation plug)
	A2	Two analog channels (4-core aviation plug)
	RS	RS485 communication (4-core aviation plug)
Electrical connection	M	M12*1 aviation plug