

CI

SOLUÇÕES EM AUTOMAÇÃO



- 1-) IO-Link V1.1 communication interface and COM2 communication rate are supported
- 2-) Dual switch output, support NPN, PNP and push-pull output mode.
- 3-) Data batch menu setting is supported, convenient for parameter setting
   4-) Save wiring and reduce long-distance installation costs.

5-) Support traditional pressure switch, Basic, hysteresis and window comparison functions

response time < 3ms.

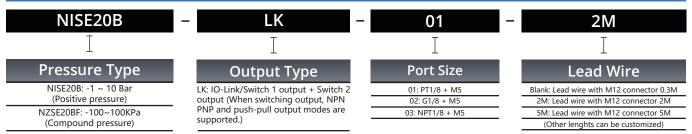
6-) Different overcurrent values (50mA to 250mA) can be set.
 7-) Dual interface, red/green display process value.

6-) Support hot swap, data parameters are stored in the IO-Link master station, no need to reconfigure parameters to replace the pressure switch. The newly replaced pressure switch is automatically recognized and put into work immediately, which can reduce equipament downtime and maintenance costs, and improve production efficiency.
9-) IO-Link protocol is independent of Fieldbus, has strong industrial networking

9-) IO-Link protocol is independent of Fleidbus, has strong industrial networking compatibility supports mainstream Fieldbus and industrial Ethernet.

10-) The pressure value can be read without an external analog module, and the communication is completely digitally transmitted. Reducing the loss of analog-to-digital conversion accuracy with strong anti-interference ability, and the max transmission distance is 20 meters.

#### **Ordering Code**

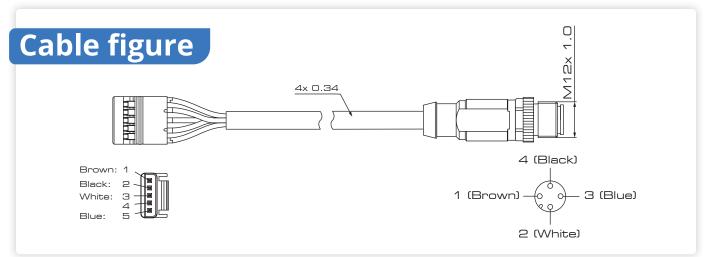


# Specification

	Model	NZSE20BF (Compound Pressure)	NZSE20B (Positive Pressure)	
Rated Pressure Range		-100.0~100.0KPa	0 ~ 10 Bar	
Set Pressure Range		-101.0~101.0KPa	-1 ~ 10 Bar	
Smallest Settable Increment		0.1KPa	0, 01 Bar	
Withstand Pressure		200KPa	15 Bar	
Unit		kPa, kgf/cm², Bar, psi, inHg, mmHg	Bar kgf/cm <sup>2</sup> , Bar, psi	
Fluid		Air, Non-corrosive gas, Non-flammable gas		
Power Supply Voltage	When Used As A Switch Output Device	12V~24VDC±10% without isolation		
	When Used As An OI-Link Device	18~30VDC±10%		
Current Consumption		≤40mA (no load)		
Response Time		<3ms (Malfunction prevention function: 2.5, 25, 100,, 250, 500, 1000, 1500ms optional)		
Switch output	Output Type	NPN open collector, PNP open collector, PP push-pull output mode can be selected		
	Output Mode	Basic Mode, Hysteresis Mode, Window Comparator Mode		
	Switch Operation	NO/NC		
(SIO mode)	Max. Load Current	125mA		
	Max. Applied Voltage	30VDC (NPN output)		
	Internal Voltage Drop	≤1.5V		
Output Short Circuit Protection		Yes		
Display Accuracy		2% F.S. ± 1 Digit (Ambient temperature of 25±3°C)		
Repeatability		±0.2%F.S.± 1 Digit		
Action Indicator		Lights up when switch output is turned ON (OUT1, OUT2: Orange)		
Display		4 Digits, 7 segments LCD display (red/green/orange) (sampling rate: 5 times/sec)		
	Enclosure	IP40		
Environmental	Withstand Voltage	AC1000V 1 minute (charging part and shelling)		
Resistance	Insulation Resistance	≥50MQ (500VDC, between the charging part and the shell)		
	Operating Temperature Range	-10~+50°C, storage environment -10~60°C (without dew and freezing)		
	Operating Humidity Range	35~85%RH (under the condition of no water and no freezing)		
Communication Specification (IO-Link Port Typemode)	IO-Linked Type	Equipment		
	IO-Linked Version	V1.1		
	Communication Speed	COM2 (38.4kbps)		
	Configuration File	IODD file		
	Port Type	Class A		
	Minimum Cyrcle Time	2.5ms		
	Process Data Length	Input data: 4Byte, output data: 0Byte		
	Vendor ID	1084 (0x043C)		

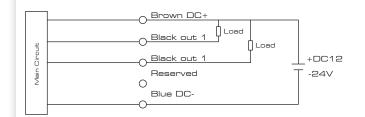
### How to Order (For Acessories)

Name	Model	Description	
Bracket A	NZS-38-A1		
Bracket B	NZS-38-A2	Mounting bracket with 2 mounting screw (M3X5L)	
Bracket C	NZS-38-A3		
Panel 1	NZS-27-C	Panel mount adapter with 2 mounting screw (M3X8L)	
Panel 2	NZS-27-D	Panel mount adapter + Front protection cover with 2 mounting screw (M3X8L)	
Lead Wire	NZS-20-2M	Lead wire with M12 connector 2M, straight, 4 core	
	NZS-20-5M	Lead wire with M12 connector 2M, straight, 4 core	

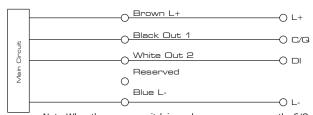


### **Output Wiring Diagram**

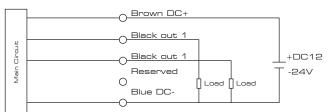
#### NPN Open Collector 1 and 2 outputs



#### When Used As An IO-Link Device



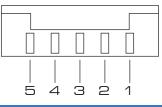
#### **PNP Open Collector 1 and 2 outputs**



Note: When the pressure switch is used as a common sensor, the C/Q output terminal is the same as the DO output terminal as a switching value output

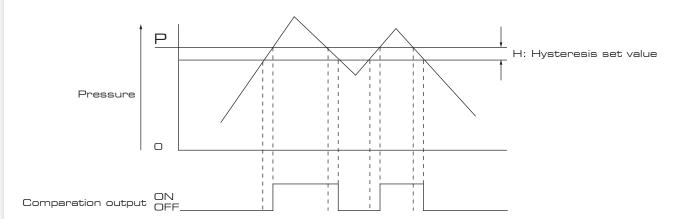
### **Terminal Arrangement Diagram**

Terminal Name	Terminal Definition	
1	24V + (Brown)	
2	Switch output OUT 1 or IO-Link (C/QLine) (Black)	
3	Switch output OUT 2 do signal (White)	
4	Reserve	
5	OV (Blue)	



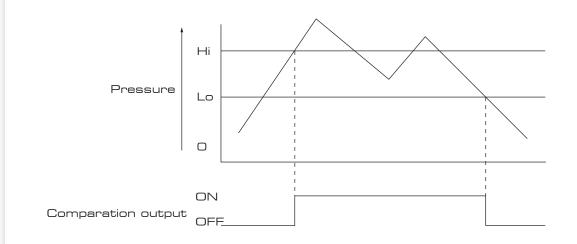
#### **Output mode**





When the pressure is large than (P) value, the output is ON. When the pressure is less than the (P) value, the output is OFF

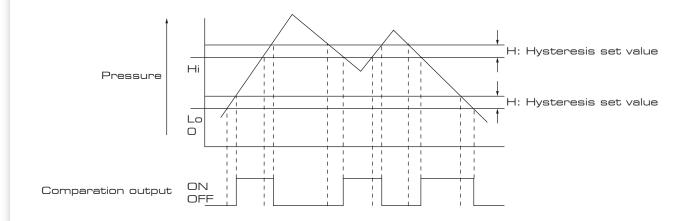
#### Hysteresis Mode



When the pressure is large than (Hi) value, the output is ON. When the pressure is less than the (Lo) value, the output is OFF

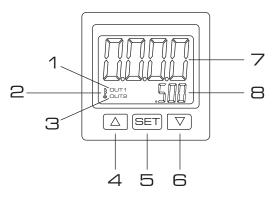
### **Output mode**

### Window Comparator Mode



When the pressure large than value (Hi) or less than value (Lo), the output is OFF. When pressure large than value (Lo) and less than value (Hi), the output is ON.

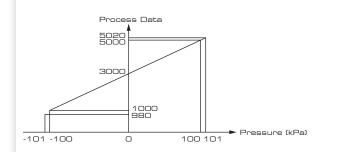
### **Panel Description**



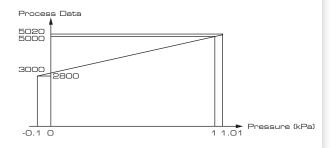
- 1-) Output 1 Indicator
- 2-) Lock
- 3-) Output 2 Indicator
- 4-) (  $\triangle$  ) Button
- 5-) Setting Button
- 7-) Main display
- 8-) Sub display

#### **IO-Link Process Data**

#### NZSE20BF (Compound Pressure)



#### **NISE20B (Positive Pressure)**

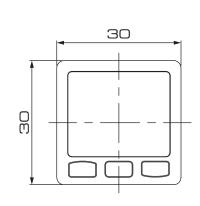


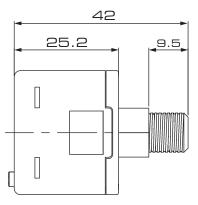
### **Function**

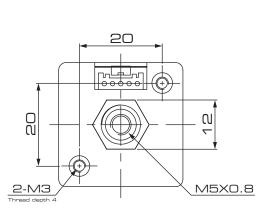
- 1-) Display value fine adjustment function
- 2-) Power saving mode
- 3-) Key-lock function
- 4-) Zero-clear function
- 5-) Maximum / Minimum value indication function 12-) Can record maximum or minimum output pressure valve 6-) Units selection function
- 8-) Evens out devations in the displayed value
- 9-) Reduces power consumption
- 10-) The keyboard can be locked to prevent the accidental operation of the operation switch 11-) The pressure display can be set to zero when the pressure is open to the atmosphere
- - 13-) Can convert the display value

# **Overall Dimension**

## NISE20B







#### Bracket A/B/C

#### Panel mount adaptor

