



Digital Pressure Switch

Digital Pressure Switch

AKME
SOLUÇÕES EM AUTOMAÇÃO



Ordering Code

NISE30A

-

M5

N

Code

NISE30A: For positive pressure
NZSE30A: For compound vacuum pressure

Pressure Type

NISE30A: -1 ~ 10 Bar
NZSE30A: 0~-101kPa
NZSE30AF: -100~100kPa

Port Size

R1/8
(M5 Female threaded)

Output Type

N: NPN open collector 1 output
A: NPN open collector 2 output
C: NPN analog voltage output
D: NPN analog voltage output
P: PNP open collector 1 output
B: PNP open collector 2 output
E: PNP analog voltage output
F: PNP analog voltage output

Specification

Model		NISE30A (Positive Pressure)	NZSE30A (Compound)	NZSE30AF (Mixed)
Rated Pressure Range		-1 - 10 Bar	0.0-101.0 kPa	-100.0-100.0 kPa
Display/Set Pressure Range		-1,05 - 10,5 Bar	10.0-105.0 kPa	-105.0-105.0 kPa
Withstand Pressure		15 Bar	500 kPa	500 kPa
Display/Smallest Settable		0,01 Bar	0.1 kPa	0.1 kPa
Medium		Air, Small combustion gas, Non - corrosive gas		
Power Supply Voltage		DC12-24V+10%, Pulse (p-p) below 10% (Power electrode protection)		
Current Consumption		<=40mA		
Output Type		NPN O.C output: 80mA/24V DC MAX or PNP O.C output: 80mA/24V DC MAX		
	Max. Load Current	80mA		
	Max. Applied Voltage	28V (When NPN output)		
	Interal Voltage	>=1V (When 80mA load current)		
	Delay Time	<=2.5ms (Shock prevention function: 20, 100, 500, 1000, 2000ms)		
	Short Circuit Protection	Has' Short circuit protection function		
Repeatability		0.2% unit below the full scale		
Delay	Hysteresis Type	Adjustable (able to set starting at zero)		
	Window Comparator Mode			
Analog Output	Voltage Output	Output Voltage	0.6-5V+2.5% unit below the full scale	1-5V+2.5% unit below the full scale
		Linear	±1% unit below the full scale	
		Output Impedance	Around 1KΩ	
	Current Output	Output Current	2.4-20mA+2.5 unit below the full scale	4-20mA+2.5% unit below the full scale
		Lines	±1% unit below the full scale	
		Load Impedance	Maximum load charge: power supply 12V:300Ω / power supply: 24V; 600Ω, Minimum load resistance: 5Ω	
Display		4 positions, 7 segments display, R&G color display		
Display Accuracy		+2% at full scale, +1 unit when (at 25+3°C)		
Indicator Light		1 output displays GREEN, 2 outputs display RED		
Working Condition	Enclosure	IP40		
	Operating Temperature Range	Usage: 0°C-50°C, reserve: -10°C-60°C (Unfrozen)		
	Operating Humidity Range	Operation & reserve: 35-85% RH (Unfrozen)		
	Withstang Voltage	AC1000V in 1 minute between the lead and the shall		
	Insulation Resistance	>=50MΩ (DC500V tramegger) between the lead and the shall		
	Vibration Resistance	10-150Hz, 1.5mm or 20m/s², amplitude at X,Y,Z about 2 hours		
	Impaction Resistance	100m/s² 3 times each in direction of X, Y and Z		
Temperature Featyres		2% F ± S of detected pressure (25°C) at temperature		
Lead Wire		Reload the oil-proof wire finished O.D Ø3.5 2 Meter, 4 conductive cross-sectional area: 0.15mm² (AWG26), insulator outer diameter: 1.0mm		
Standards		CE, UL/CSA, RoHS		

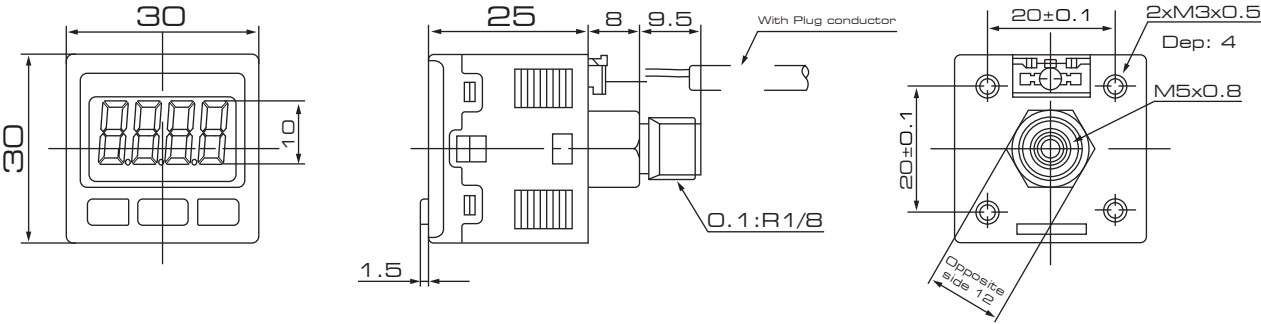
Digital Pressure Switch

Mounting bracket (Optional)

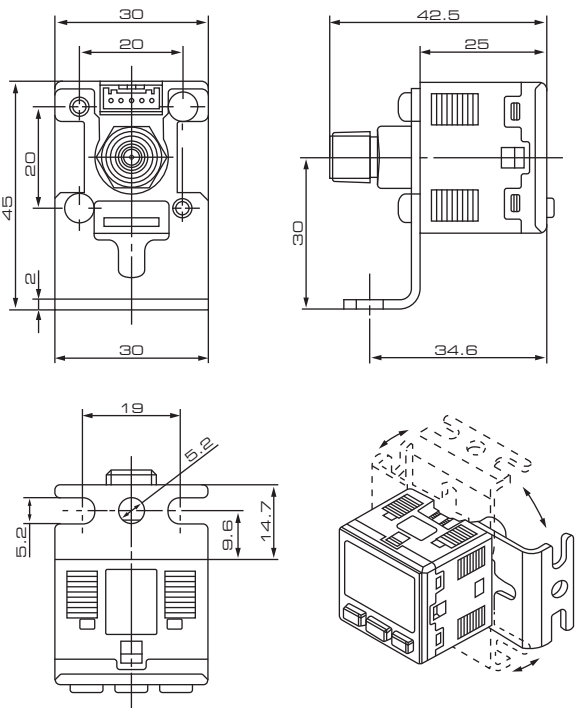
Port No.	Options
NZS-27-C	Panel mount adaptor with 2 screws (M3X8L)
NZS-27-D	Panel mount adaptor with + front protection cover with 2 screws (M3X8L)
NZS-38-3L	2m: Lead wire with connector, 3 wire, 1 output
NZS-38-4L	2m: Lead wire with connector, 3 wire, 2 output

Overall Dimension

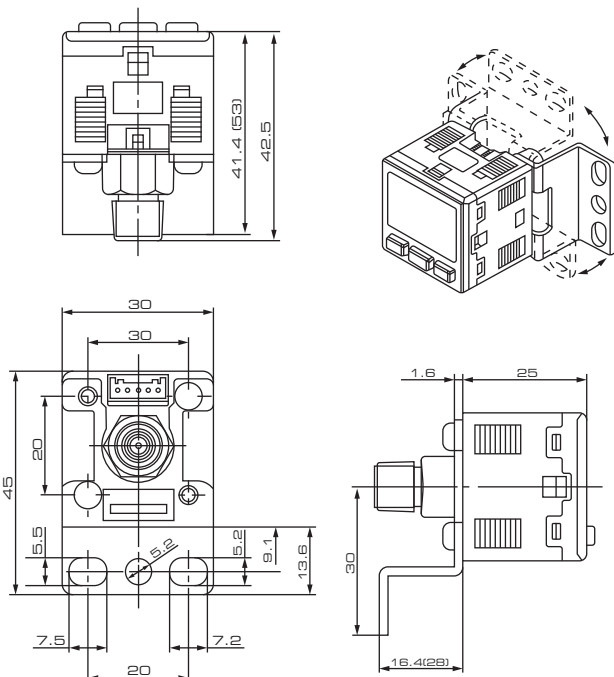
NZ/ISE30A(F)



Bracket type A



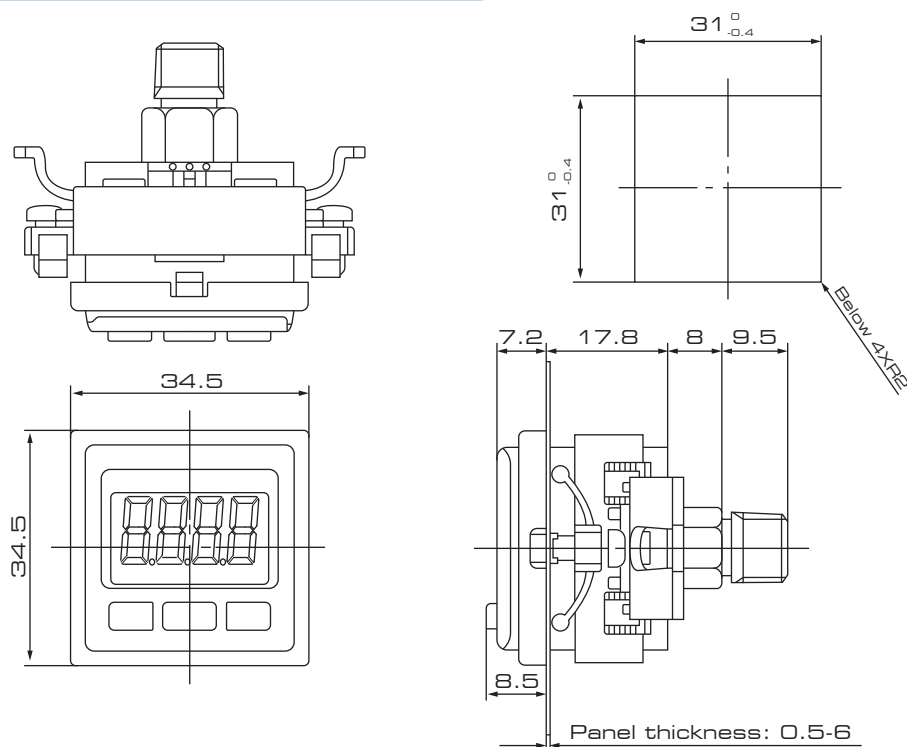
Bracket type B & C



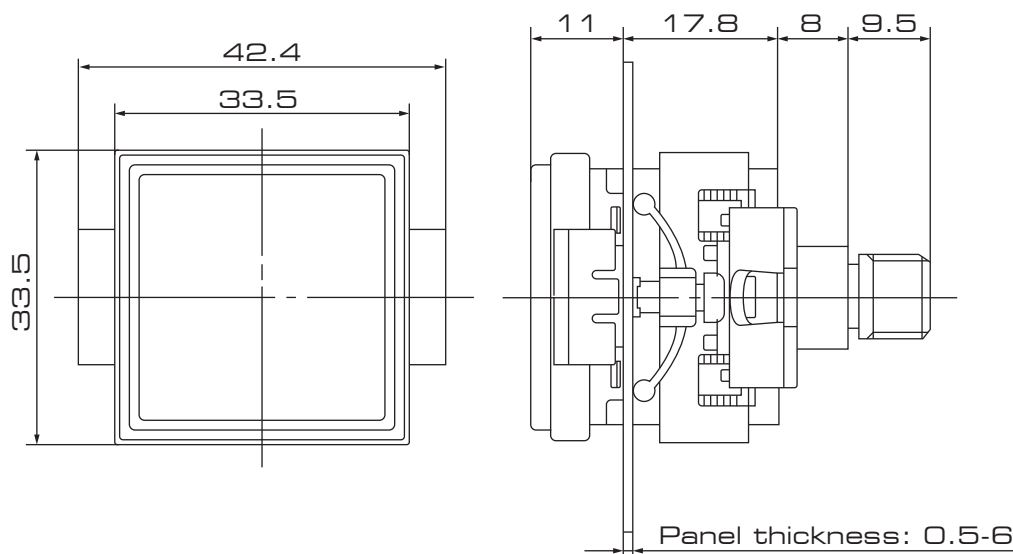
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I/O Circuit and Wiring Diagrams

Panel Mounting NZS-20-C



Panel Mounting NZS-20-D

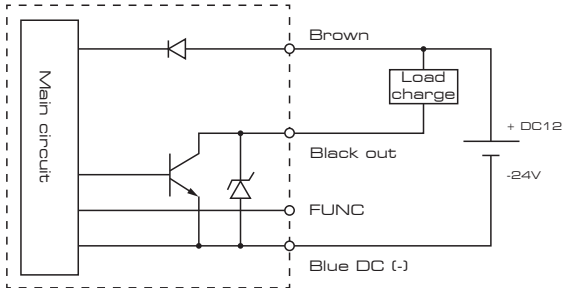


Digital Pressure Switch

With 2 independent outputs and 3 output modes

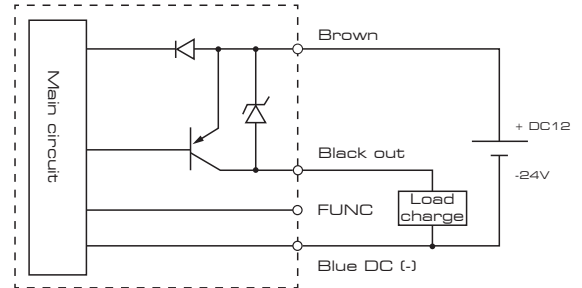
NZ/ISE30A(F)

NPN (1 Output)



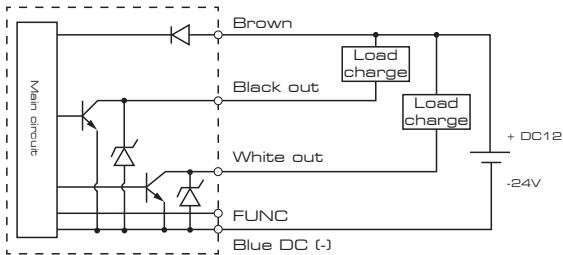
Residual voltage below 1V

PNP (1 Output)



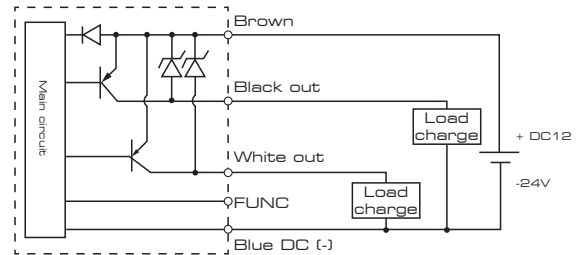
Residual voltage below 1V

NPN (2 Output)



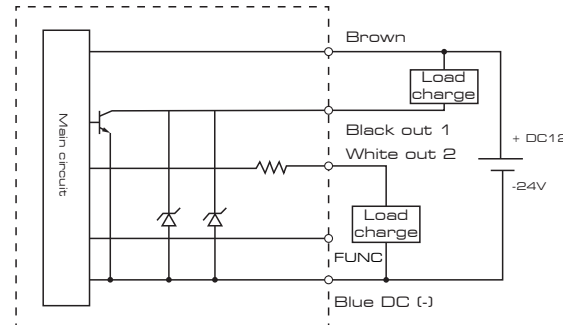
Residual voltage below 1V

PNP (2 Output)



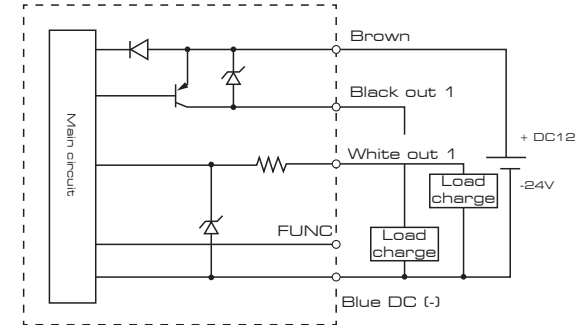
Residual voltage below 1V

NPN (1 Output) Analog voltage output



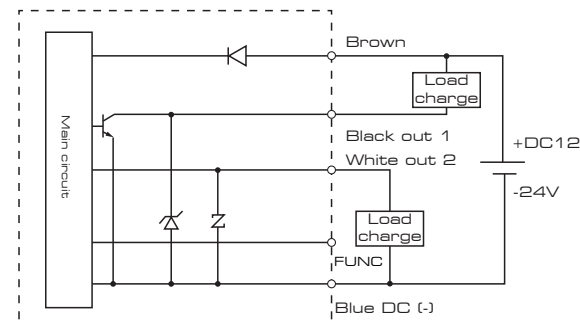
Analog voltage output residual voltage below 1V,
The output resistance around 1K Ω

PNP (1 Output) + Analog voltage output



Analog voltage output residual voltage below 1V,
The output resistance around 1K Ω

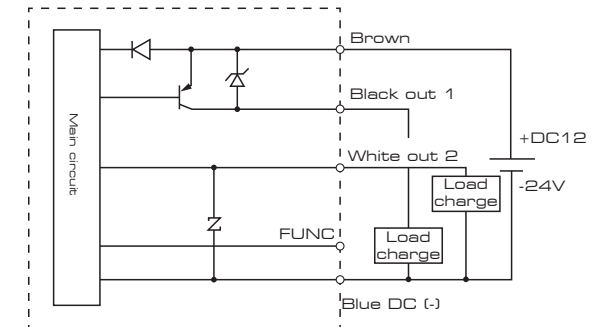
NPN (1 Output) Analog voltage output



Max. 28V, 80mA
Internal voltage drop below 1V
Analog current output
Maximum load impedance

Power supply voltage 12V: 300 Ω
Power supply voltage 24V: 600 Ω
Pinimum load impedance

PNP (1 Output) + Analog voltage output



Max. 28V, 80mA
Internal voltage drop below 1V
Analog current output
Maximum load impedance

Power supply voltage 12V: 300 Ω
Power supply voltage 24V: 600 Ω
Pinimum load impedance: 50 Ω