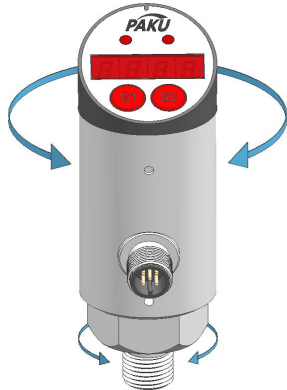


Thread model



330°旋转

Chuck type



principle and characteristics

PN80 series electronic pressure sensors adopt a high-precision diffused silicon core to ensure high precision and durability of the sensor. With on-site display, LED digital display for on-site pressure or Settings menu.

Maximum measuring range: -1... 600bar, digital LED display pressure value and switch status, menu set switch point, analog quantity start, end point, output function, storage function and display function, so the setting does not need to be completed in the field. With high reliability, the output can be directly connected for PLC. M12 lock type connector, easy to disassemble, high protection level. Positive or negative pressure can be measured. The sensor can be used as either a pressure switch or a pressure transmitter because it has both a switching output and an analog output.

technical specification

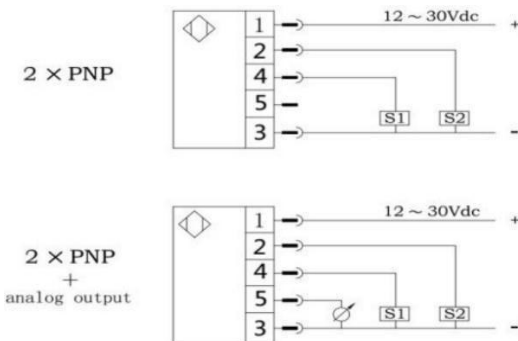
- ◆ supply voltage: 12...30Vdc
- ◆ High precision diffused silicon core
- ◆ No-load current consumption: maximum 30mA, 24VDC power supply
- ◆ switched output:
- ◆ Output type: PNP, NPN optional normally open normally closed can be set
- ◆ S1, S2 Output current: <500mA Response time <10ms
- ◆ Switching accuracy:  $\leq \pm 0.5\%$  range
- ◆ Current type analog output:  $\leq \pm 0.5\%$  range
- ◆ Output type: 4... Can be set to 20 ma
- ◆ Load Ra:  $\leq 0.5K\Omega$
- ◆ Linearity:  $\leq 0.5\%$  range
- ◆ Wiring protection: reverse phase, overload, short circuit protection
- ◆ display:
- ◆ Design: red 4-bit 8mm high brightness LED

Display range: 999... 9999

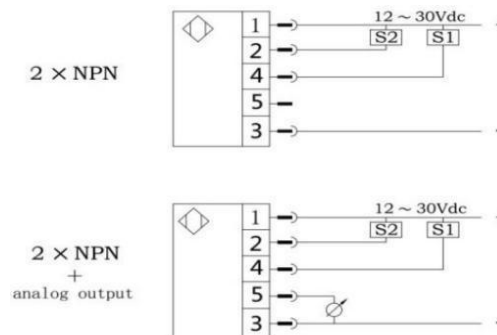
Accuracy:  $\leq \pm 0.5\%$  range

- ◆ Stability (annual drift) :  $\leq \pm 0.3\%$  range
- ◆ temperature: medium temperature: -20...85°C
- ◆ environment temperature: -20...80°C
- ◆ storage temperature: -30...80°C
- ◆ materials: Shell of the watch head: engineering plastic
- ◆ Shell: 304 stainless steel
- ◆ Medium contact part: stainless steel 304
- ◆ Protection grade: IP67
- ◆ Outgoing way: M12X1 connector
- ◆ The head part and hexagonal part can rotate 330°
- ◆ temperature compensation

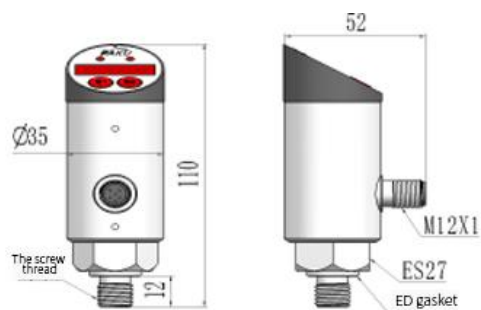
Wiring Diagram 1. (PNP Output)



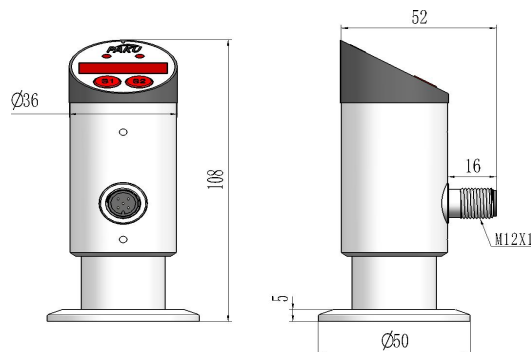
Wiring Diagram 2. (NPN output)



Dimensions Figure 1. Thread type



Dimensions Figure 2. Chucks



Selection table

PN80-	P	Z	A	G4	H	D	Q	B	detailed
PN80-									PN80 series electronic digital display
	P								PNP output
	N								NPN output
		Z							positive pressure
		F							negative pressure
			A						Setting range: -1.. 1 bar or 0.. 1bar
			B						Setting range: -1.. 2 bar or 0.. 2bar
			C						Setting range: -1.. 5 bar or 0.. 5bar
			D						Set range: 0.. 10bar
			E						Set range: 0.. 25bar
			F						Set range: 0.. 100bar
			G						Set range: 0.. 160bar
			H						Set range: 0.. 250bar
			I						Set range: 0.. 400bar
			J						Set range: 0.. 600bar
			K						Custom range, such as 300bar, Selection: K000
				G4					Interface thread: G1/4
				G2					Interface thread: G1/2
				K5					Chuck connection (outside diameter)
				P					Flush membrane connection
									Custom thread
					H				external thread
					K				internal thread
						A			1 switch output
						B			2 switches output
						C			1 analog quantity 4-20mA output
						D			1 switch +1 analog 4-20mA output
						E			2 switching quantities +1 analog
						F			2 switching quantities +1 analog
							Q		M12 x 1 connector
								B	No damper, no heat sink
								Z	Damper (optional)
								S	Heat sink (optional)

\* The selection table is only available for parameter selection, and the corresponding code is delivered.