

A



principle and characteristics

Compact diffused silicon pressure transmitter, wide choice, compact structure, suitable for harsh environment, high reliability. Wide range (0... 600bar), which can be used to measure gauge pressure and absolute pressure. Suitable for mechanical equipment, hydraulic pneumatic device, locomotive, pressure control.

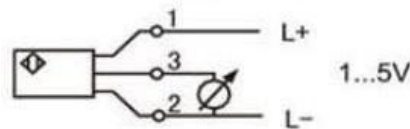
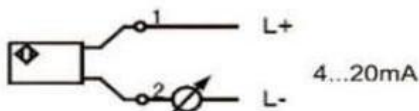
technical specification

- ◆ Measurement range: customized according to user requirements
- ◆ Overload range: 1.5 times of measuring range
- ◆ precision: 0.25%, 0.5%
- ◆ linearity:  $\pm 0.2\%$
- ◆ Repeatability:  $\leq \pm 0.1\%$
- ◆ Stability: no more than the accuracy of the transmitter within 1 year
- ◆ Temperature effect:  $< \pm 0.02\%FS/K$
- ◆ response time:  $< 1ms(10\%FS)$
- ◆ power supply: 10...30VDC(3-wire 14...30V)
- ◆ load:  $\geq 10K\Omega(0\%FS), \geq 5K\Omega(1\%FS)$   
 $\leq (UB-10)V, 0.02A(4\%FS)$
- ◆ Power consumption: Signal current (2-wire), 8mA(3-wire)
- ◆ Electrical protection: overload/reverse phase protection
- ◆ Ambient temperature:  $-30\% \dots 85\% \text{ } ^\circ C$
- ◆ medium temperature:  $-25\% \dots 80\% \text{ } ^\circ C$
- ◆ Storage temperature:  $-30\% \dots 100\% \text{ } ^\circ C$
- Protection grade: IP65
- ◆ Shell material: 304 stainless steel
- ◆ Liquid material: 304 stainless steel
- ◆ Sealing: fluorine rubber
- ◆ weight: 0.10Kg

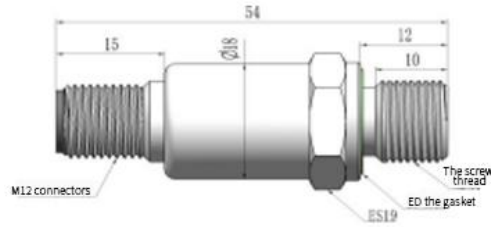
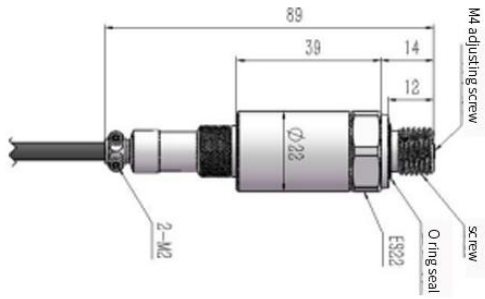
B



wiring diagram



dimension figure



Selection table

PN502-	A	GB...	C	G4	H	4	C	B	specification
PN502-									PN502 series spread silicon type pressure sensors
	A								A
	BC								Type B: gauge pressure
	BD								Type B: Absolute pressure
		GB...							Optional range: bar (unit)
		GP...							Optional range: kPa (unit)
									Custom range
			B						Accuracy class: 0.25
			C						Accuracy grade: 0.5
				N4					Interface thread: NPT1/4
				N2					Interface thread: NPT1/2
				G4					Interface thread: G1/4
				G2					Interface thread: G1/2
				M2					Interface thread: M20*1.5
									Custom thread
					H				external thread
					K				internal thread
						4			4-20 ma output
						1			1-5 v output
						0			0 to 10 v output
							C		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.