

principle and characteristics

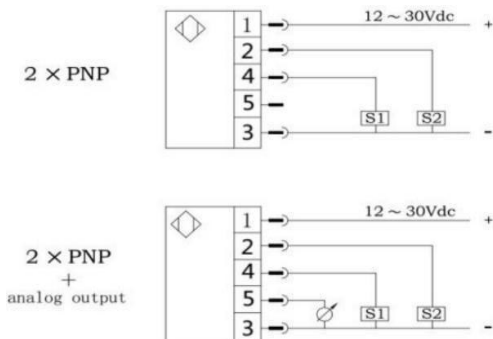
PN533 adopts diffused silicon sensor for pressure measurement, and the signal is processed by the post-processing circuit and converted into standard industrial electrical signal output and display.

Full metal housing design, with highlighted LED digital display, so that the series can be used in a variety of industrial applications. Double key design and menu make the product more convenient to use, a variety of connection methods can fully meet a variety of specific installation needs.

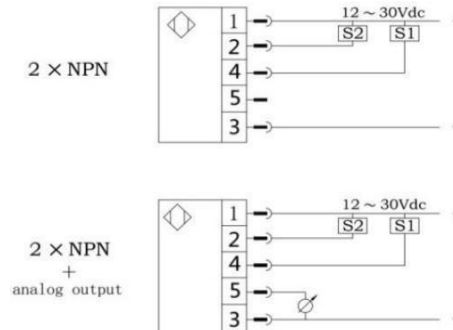
technical specification

- ◆ Power supply voltage: 12... 30Vdc
- ◆ Measuring range: 0--0.1bar--25bar
- ◆ Maximum pressure withstand: 300% of full scale
- ◆ Power supply voltage: 12... 30Vdc
- ◆ No-load current consumption: maximum 30mA, 24VDC power supply
- ◆ 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
Ambient temperature: -20... 80 °C
Storage temperature: -30... 80 °C
Materials: Nod case: aluminum alloy
Shell: 304 stainless steel
Medium contact part: stainless steel 316L
- ◆ Protection grade: IP67
- ◆ Outgoing way: wiring terminal

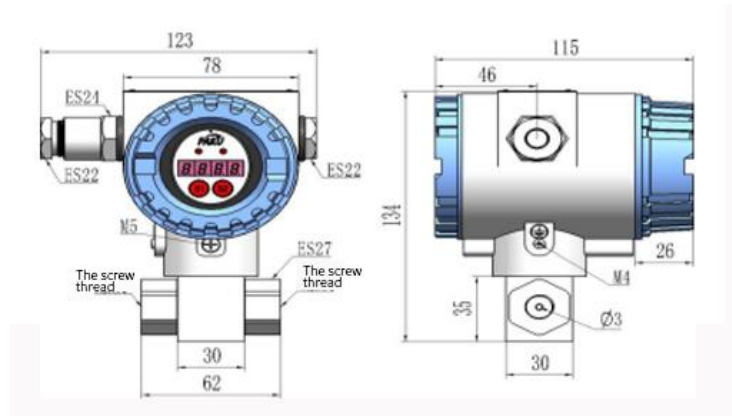
Wiring Diagram 1. (PNP Output)



Wiring Diagram 2. (NPN output)



dimension figure



Selection table

| PN533- | P | A | G4 | H | G4 | H | 1 | B | specification |
|--------|---|---|----|---|----|---|---|---|--|
| PN533- | | | | | | | | | PN533 series explosion-proof electronic digital pressure differential sensor |
| | P | | | | | | | | PNPoutput |
| | N | | | | | | | | NPNoutput |
| | | A | | | | | | | setting range: 0--0.1bar |
| | | B | | | | | | | setting range: 0--0.2bar |
| | | C | | | | | | | setting range: 0--0.5bar |
| | | D | | | | | | | setting range: 0--1bar |
| | | E | | | | | | | setting range: 0--2.5bar |
| | | F | | | | | | | setting range: 0--6bar |
| | | G | | | | | | | setting range: 0--10bar |
| | | H | | | | | | | setting range: 0--16bar |
| | | I | | | | | | | setting range: 0--25bar |
| | | J | | | | | | | Customize the range, such as 20bar, Selection: j-20 |
| | | | G4 | | | | | | High voltage end thread: G1/4 |
| | | | G2 | | | | | | Thread of high voltage end interface: G1/2 |
| | | | K5 | | | | | | Chuck connection (outside diameter 50.5mm) |
| | | | | | | | | | Custom thread |
| | | | | H | | | | | external thread |
| | | | | K | | | | | internal thread |
| | | | | | G4 | | | | Low - voltage connection thread: G1/4 |
| | | | | | G2 | | | | Thread of low voltage end interface: G1/2 |
| | | | | | K5 | | | | Chuck connection (outside diameter 50.5mm) |
| | | | | | | | | | Custom thread |
| | | | | | | H | | | external thread |
| | | | | | | K | | | internal thread |
| | | | | | | | 1 | | 2 switches output |
| | | | | | | | 2 | | 2 switching quantities +1 analog quantities 4-20mA output |
| | | | | | | | 3 | | 2 switching quantities +1 analog quantities 1-5V output |
| | | | | | | | | B | No damper, no heat sink |
| | | | | | | | | Z | Damper (optional) |
| | | | | | | | | S | Heat sink (optional) |

* The type selection table is only for technical selection, and the corresponding type of the factory model is reflected by the