Rugged and impact–resistant pressure transmitter PN50B

Paragraph connectors



Hersman paragraph



dimensio
n figure

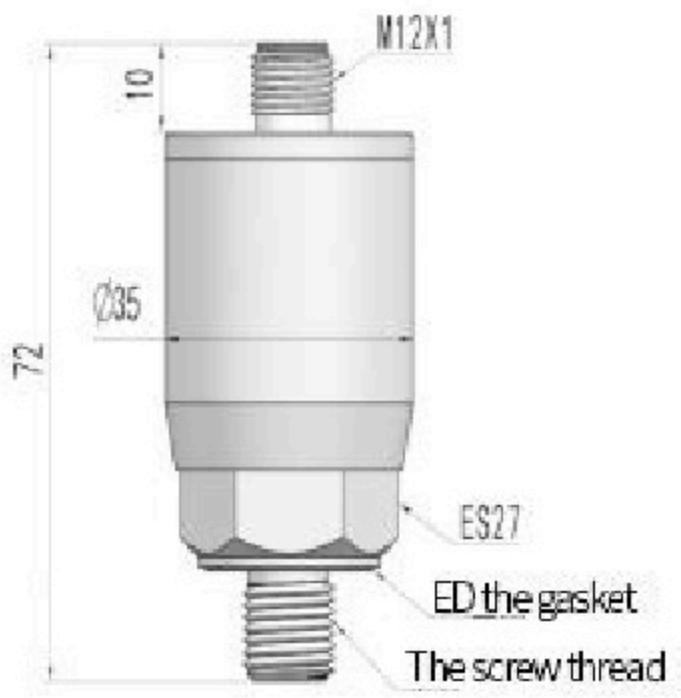
principle and characteristics

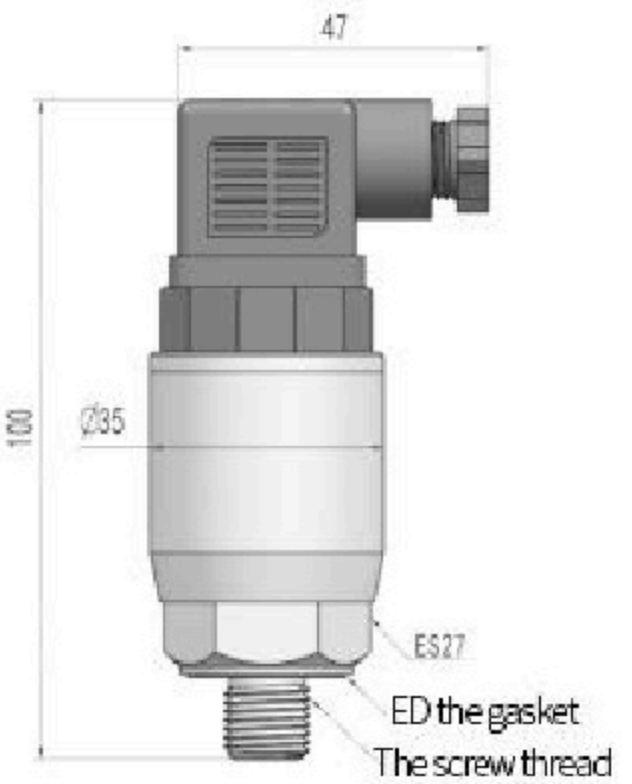
olid and impact–resistant diffused silicon pressure transmitter, ide choice, compact structure, suitable for harsh environment, igh reliability. Wide range (0... 1000bar), which can be used to easure gauge pressure and absolute pressure. Suitable for echanical equipment, hydraulic pneumatic device, locomotive, ressure control.

echnical specification

- Measurement range: customized according to user requirements
- Overload range: 1.5 times of measuring range
- Precision: 0.5%
- linearity: ± 0.2%
- Repeatability: ⩽ ± 0.1fs
- Stability: no more than the accuracy of the transmitter within 1 year
- Temperature effect: < ± 0.02%FS/K
- Response time: < 1ms(10... 90%FS)
- Power supply: 10... 30VDC(3–wire 14... 30V)
- load： ⩾10KΩ(0...10V),⩾5KΩ(1...5V)
  ⩽ (UB–10)V,0.02A(4...20mA)
- Power consumption: Signal current (2–wire), 8mA(3–wire)
- Electrical protection: overload/reverse phase protection
- Ambient temperature: –30... 85 ℃
- Medium temperature: –25... 80 ℃
- Storage temperature: –30... 100 ℃
- Protection grade： IP65
-
- Shell material: 304 stainless steel
- Liquid material: 304 stainless steel
- Sealing: fluorine rubber
- Weight: 0.10kg

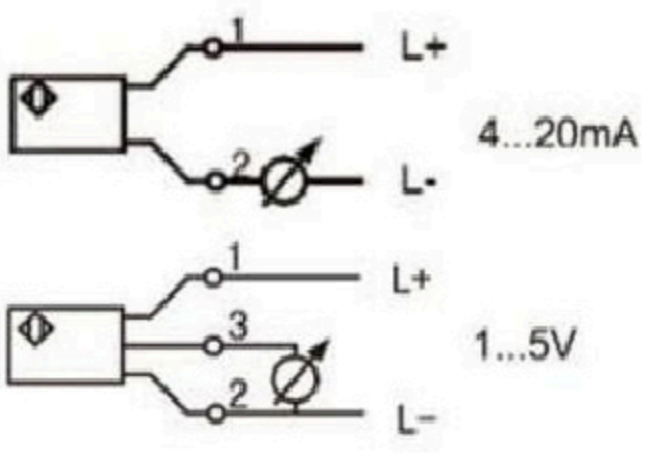
wiring
diagram





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STANDARD RANGE

STANDARD RANGE	Gage pressure	Absolute pressure code
0--1bar	GB001	AB001
0--2bar	GB002	AB002
0--4bar	GB004	AB004
0--10bar	GB010	AB010
0--20bar	GB020	AB020
0--40bar	GB040	AB040
0--60bar	GB060	AB060
0--100bar	GB100	AB100
0--160bar	GB160	AB160
0--200bar	GB200	AB200
0--250bar	GB250	AB250
0--400bar	GB400	AB400
0--600bar	GB600	AB600

Selection table

PN50B–	GB...	C	G4	H	4	B	B	specification
PN50B–								PN50B series of strong impact resistant pressure transmitters
	GB...							Gauge range: bar (unit), refer to range table
	AB...							Absolute pressure range: bar (unit), refer to range table
	GP...							Optional range: kPa (unit), user defined
								Custom range
		C						Accuracy grade: 0.5
			G4					Interface thread: G1/4
			G2					Interface thread: G1/2
			N4					Interface thread: NPT1/4
			N2					Interface thread: NPT1/2
			M2					Interface thread: M20*1.5
			P					Flat film type > G1/2 thread
								Custom thread
				H				H: Female thread K: Female thread
					4			4–20 ma output
					1			1–5 v output
					0			0 to 10 v output
						A		A: M12 x 1 connector
						B		B: Hersman connector
							B	No damper, no heat sink
							Z	Z: Damper S: Heat sink (optional)

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

Optional display header

F10–	A	specification
F10–		Display meter
	A	4–20 ma output
	B	1–5 v output
	C	0 to 10 v output

* The display represents an electronic device used for digital display of a sensor signal, The desired display range can be set by setting button
* Free programming through an unprocessed processor
* No on–site setup required
* With 4... 20mA output sensor
* Protection class IP55



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