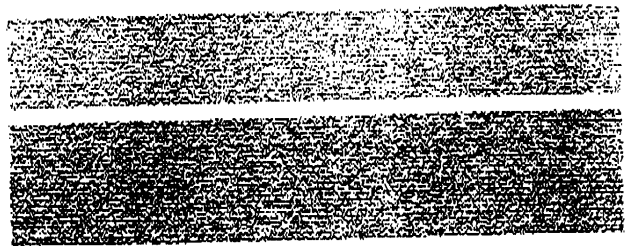
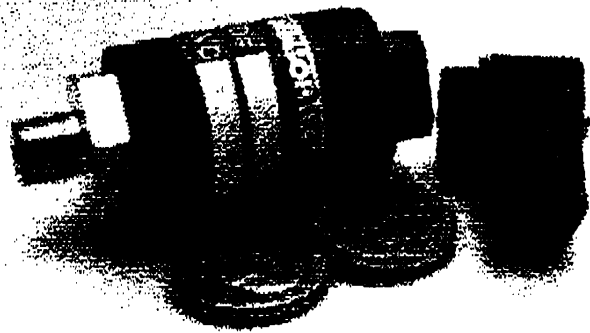


FEATURES

- 0 ... 5 psi to 0 ... 500 psi absolute or gage
- 100 mV $\pm$ 1 % output signal
- For corrosive pressure media
- Excellent low temperature drift
- All welded stainless steel diaphragm construction
- For hostile environments



SERVICE

Media wetted parts: any liquid or vapor that is compatible with stainless steel 316 (1.4401)

Housing: anodized aluminium

Protection class: IP65, according to DIN40050 (NEMA4)[†]

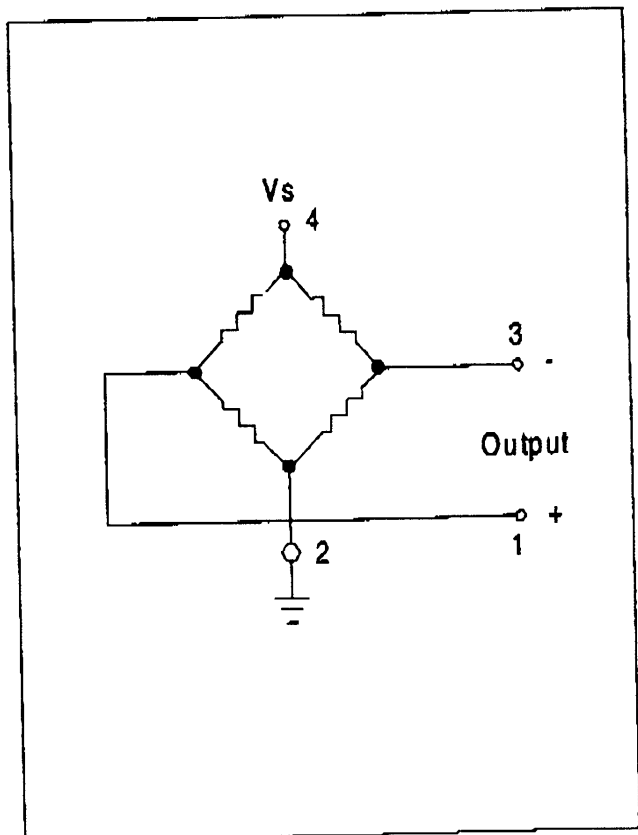
Scale: 1 cm 1 inch

SPECIFICATIONS

Maximum ratings

Supply voltage	15 V
Temperature limits	
Storage	-40°C to 125°C
Operating	-20°C to 105°C
Compensated	0°C to 70°C
Isolation resistance	100 M Ω
$V_s = 50 V_{DC}$	
Isolation voltage	500 V _{AC}
Vibration (50 Hz to 2000 Hz)	16 g _{RMS}
Mechanical shock (0.5 ms)	50 g

ELECTRICAL CONNECTION



PS20000-Series

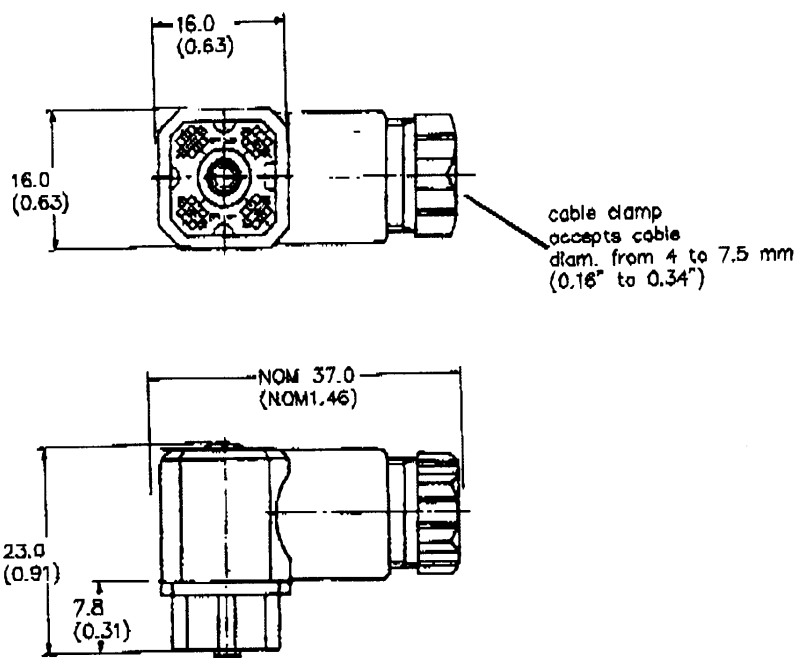
Silicon stainless steel pressure sensors

RECOMMENDED MATING CONNECTOR (included in delivery):

Hirschmann G4W1F

Note:

Sensors for gage pressure need to be vented through socket and mating connector. Thus the cable end needs to have access to the atmosphere.



ORDERING INFORMATION

pressure range	gage pressure devices	absolute pressure devices
0 - 5 psi	PS20005G	---
0 - 15 psi	PS20015G	PS20015A
0 - 30 psi	PS20030G	PS20030A
0 - 50 psi	PS20050G	PS20050A
0 - 100 psi	PS20100G	PS20100A
0 - 200 psi	PS20200G	PS20200A
0 - 300 psi	PS20300G	PS20300A
0 - 500 psi	PS20500G	PS20500A

SPECIFICATION NOTES:

- Reference conditions (unless otherwise noted): Supply Voltage, $V_s \approx 10.0$ Vdc; $t_{amb} = 25^\circ\text{C}$
- Span is the algebraic difference between the output voltage at full scale pressure and the output at zero pressure.
Span is ratiometric to the supply voltage
- Linearity is based on best fit straight line. Hysteresis is the maximum output difference at any point within the operating pressure range for increasing and decreasing pressure.
- Maximum error band of the offset voltage or span over the compensated temperature range, relative to the 25°C reading.
- Long term stability over a one year period.
- Response time for 0 psi to full scale span pressure step change
- If maximum pressure is exceeded, even momentarily, the package may leak or burst, or the pressure sensing die may fracture.
- IP65 (NEMA4) protection is given with locked connector only.

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PS20000-Series

Silicon stainless steel pressure sensors

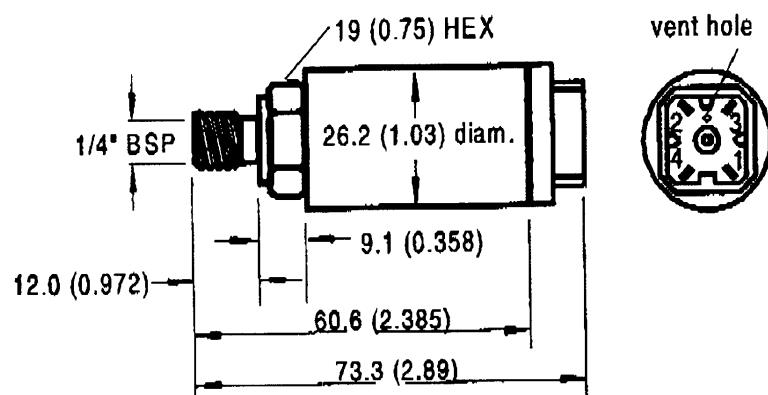
PRESSURE RANGE SPECIFICATIONS

Part No.	Pressure Range	Proof Pressure ⁷
PS20005	0 - 5 psi	20 psi
PS20015	0 - 15 psi	45 psi
PS20030	0 - 30 psi	90 psi
PS20050	0 - 50 psi	150 psi
PS20100	0 - 100 psi	300 psi
PS20200	0 - 200 psi	600 psi
PS20300	0 - 300 psi	900 psi
PS20500	0 - 500 psi	1000 psi

PERFORMANCE CHARACTERISTICS¹

Characteristics	Min.	Typ.	Max.	Unit
Zero pressure offset	-1.0	0	+1.0	mV
Full scale span ²	PS20005G all others	60 100	61 101	mV
Combined linearity and hysteresis ³	---	±0.1	±0.5	%FSS
Temp. effect on span ⁴	---	±0.2	±1.0	%FSS
Temp. effect on offset ⁴	---	±0.2	±1.0	mV
Thermal hysteresis (0 to 50°C)	---	±0.2	---	%FSS
Long term stability of offset and span ⁵	---	±0.1	---	mV
Response time (10 % to 90 %) ⁶	---	0.1	---	ms
Input impedance	---	4.5	---	kW
Output impedance	---	4.5	---	kW
Repeatability	---	±0.05	---	%FSS
Common mode output	1.0	2.5	4.0	Volts

Outline drawing



Electrical connection

Pin	connection
1	+V _{out}
2	GND
3	-V _{out}
4	+V _s

Mass: 45 g

Dimensions in mm (inches)