

FEATURES

- 0...175 mbar gage
- 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)

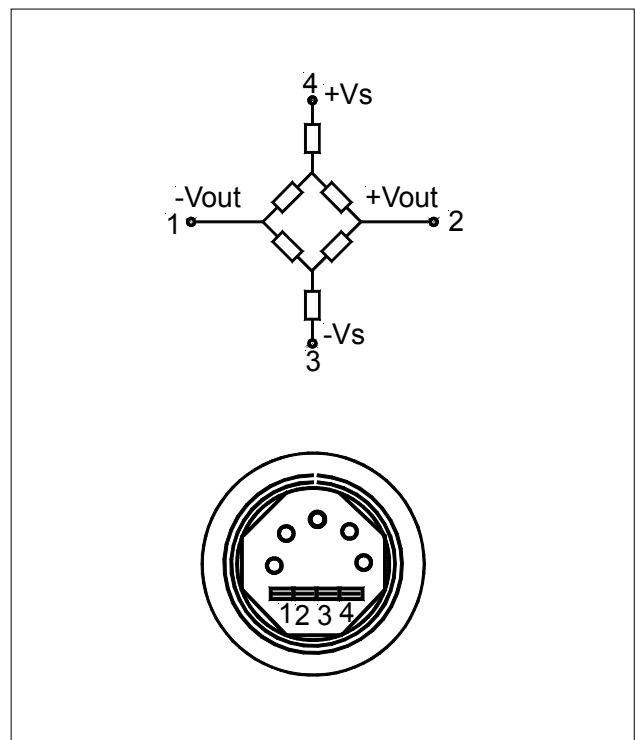
Scale: 1/2 cm
1/2 inch

SPECIFICATIONS

Maximum ratings

Supply current	2.0 mA
Temperature limits	
Storage	-40°C to 125°C
Operating	-10°C to 80°C
Compensated	0°C to 70°C
Vibration (20 Hz to 2000 Hz)	10 g _{RMS}
Mechanical shock (11 ms)	100 g
Proof pressure ¹	500 mbar
Isolation resistance @ 50 V _{DC}	50 MΩ

ELECTRICAL CONNECTION



SSCM3175GA

Temperature compensated silicon stainless steel pressure sensors

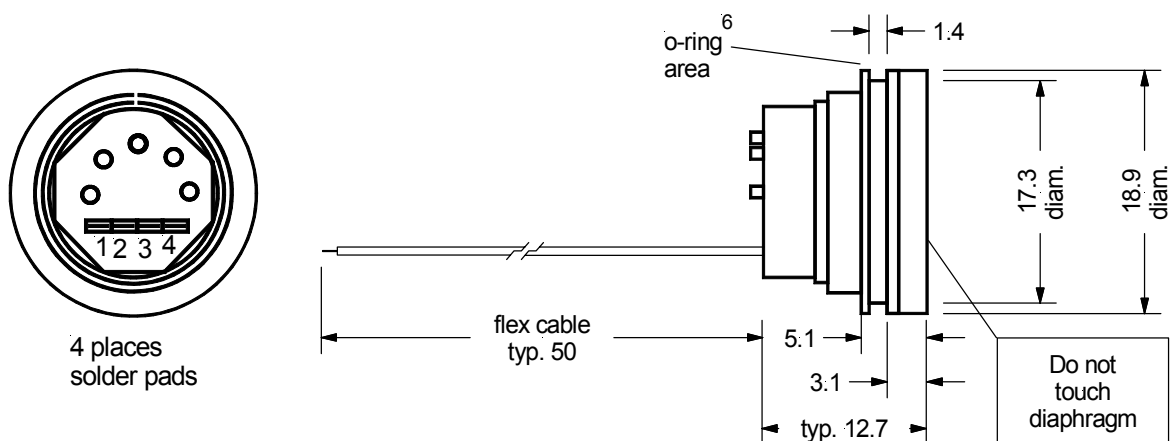
PERFORMANCE CHARACTERISTICS (unless otherwise noted, $I_s = 1.5 \text{ mA}$, $t_{amb} = 25^\circ\text{C}$)

Characteristics		Min.	Typ.	Max.	Unit
Operating pressure				175	mbar
Zero pressure offset		-2	± 1	2	mV
Full scale output ²		50	125	200	
Non-linearity (BSL) ³			0.1	± 0.5	%FSO
Hysteresis and repeatability				± 0.05	
Thermal effects (0°C to 70°C) ⁴					
		Offset	± 0.5	± 2	%FSO
		Full scale output	± 0.5	± 2	
		Hysteresis	± 0.1	± 0.3	
Input impedance			4.0		k Ω
Output impedance		4.0	5.0	6.0	
Long term stability ⁵					%FSO
		Offset	± 0.1		
		Span	± 0.1		
Power consumption			60		mW

Specification notes (for all devices):

1. Proof pressure is the max. pressure which may be applied without causing damage to the sensing element.
2. Full scale measurement at maximum operating pressure.
3. Non-linearity - the maximum deviation of measured output at constant temperature, from "Best Straight Line" through three points (offset pressure, full scale pressure and half scale pressure).
4. Temperature tested and guaranteed from at 70°C relative to 25°C . All specs. are shown relative to 25°C .
5. Change in output after 1 year.
6. Recommended o-ring $17 \times 1 \text{ mm}$ #674-70.

OUTLINE DRAWING



mass: 10 g

dimensions in mm

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