

# SSC2000 Series

## Temperature compensated silicon stainless steel pressure sensors

### FEATURES

- 0...35 bar to 0...350 bar absolute or sealed gage
- For corrosive pressure media
- Excellent low temperature drift
- All welded stainless steel diaphragm construction
- For hostile environments



### SERVICE

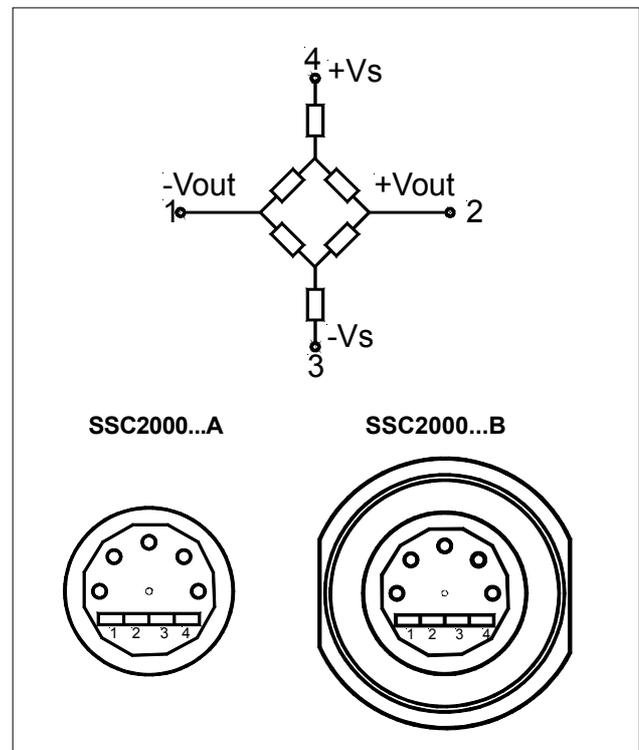
Media wetted parts:  
any liquid or vapor that is compatible  
with stainless steel 316 (1.4401)

### SPECIFICATIONS

#### Maximum ratings

Supply current	1.5 mA
Temperature limits	
Storage	-40 to 125°C
Operating	-40 to 125°C
Compensated	0 to 70°C
Vibration (20 Hz to 2000 Hz)	10 g <sub>RMS</sub>
Mechanical shock ( 11 ms)	100 g
Proof pressure <sup>1</sup>	2 x rated pressure

### ELECTRICAL CONNECTION



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### PERFORMANCE CHARACTERISTICS

unless otherwise noted  $I_s = 1 \text{ mA}$ ,  $t_{amb} = 25^\circ\text{C}$

Characteristics	Min.	Typ.	Max.	Unit
Operating pressure SSC2035... SSC2070... SSC2350...			35 70 350	bar
Zero pressure offset	-2	$\pm 1$	2	mV
Full scale output <sup>2</sup>	170	200	230	
Non-linearity (BSL) <sup>3</sup>		0.1	$\pm 0.25$	%FSO
Hysteresis and repeatability		0.01	$\pm 0.05$	
Thermal effects (0°C to 70°C) <sup>4</sup>				
Offset		0.2	$\pm 0.75$	
Full scale output		-0.2	$\pm 0.75$	
Hysteresis		$\pm 0.1$	$\pm 0.2$	
Input impedance	3.2	4.0	4.8	k $\Omega$
Output impedance	4.0	5.0	6.0	
Long term stability <sup>5</sup>				%FSO
Offset		$\pm 0.1$		
Span		$\pm 0.1$		
Power consumption		4		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. Thermal effects tested and guaranteed at 70°C relative to 25°C. All specifications are shown relative to 25°C.
5. Change in output after 1 year.
7. Use 2-003 per I.S.O. 360 1/1 o-ring for inside seal.
8. Use 12 x 1.5 mm o-ring for outside seal.

### ORDERING INFORMATION

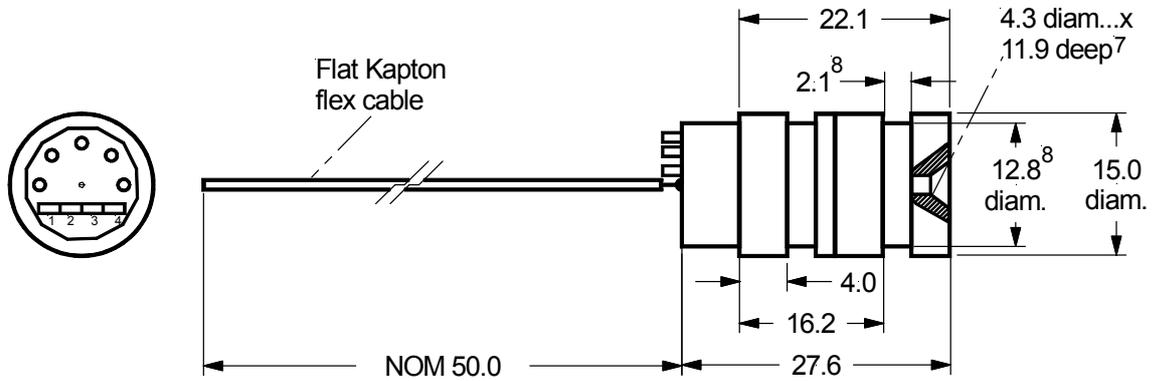
Operating pressure	O-ring seal	Package version	
			1/2" - 20 UNF thread
0...35 bar absolute	SSC2035AA		SSC2035AB
0...70 bar absolute	SSC2070AA		SSC2070AB
0...350 bar absolute	SSC2350AA		-
0...35 bar sealed gage	SSC2035SA		SSC2035SB
0...70 bar sealed gage	SSC2070SA		SSC2070SB
0...350 bar sealed gage	SSC2350SA		-

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### OUTLINE DRAWING

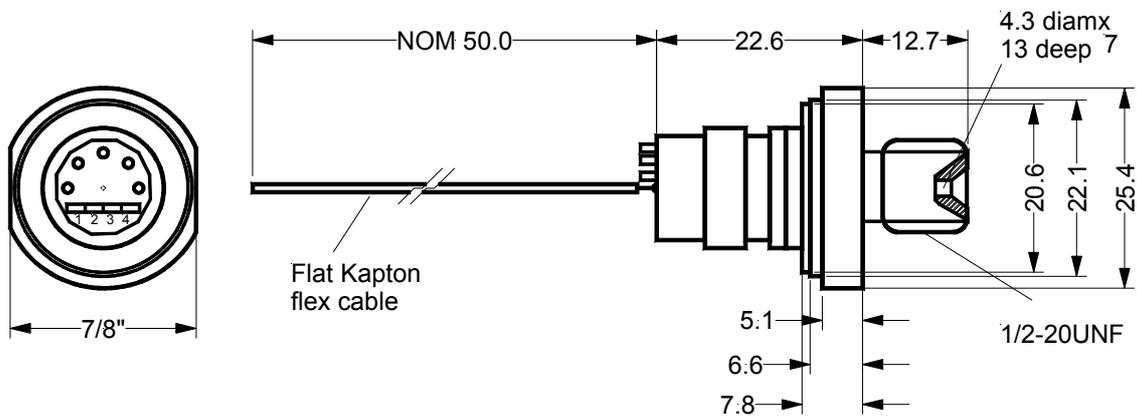
#### SSC2000...A



mass: 28 g

dimensions in mm

#### SSC2000...B



mass: 45 g

dimensions in mm

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