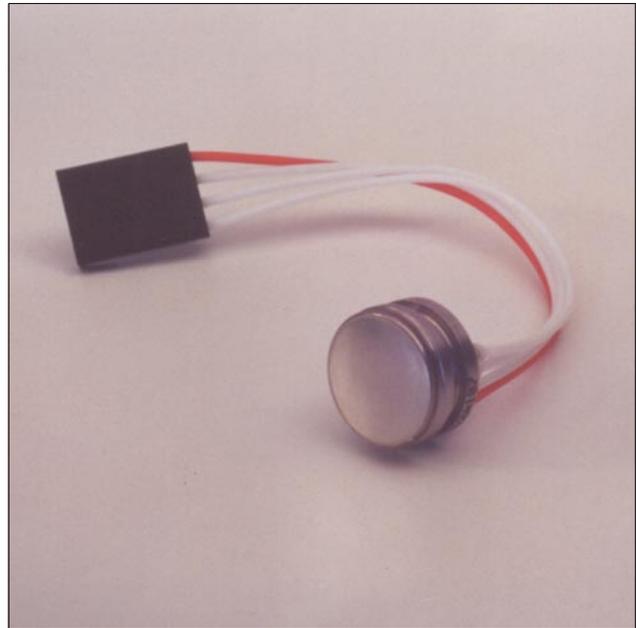


### FEATURES

- 0...1 bar gage pressure
- For corrosive pressure media
- Low temperature drift
- All welded stainless steel diaphragm construction
- Really flat diaphragm
- For hostile environments



### SERVICE

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

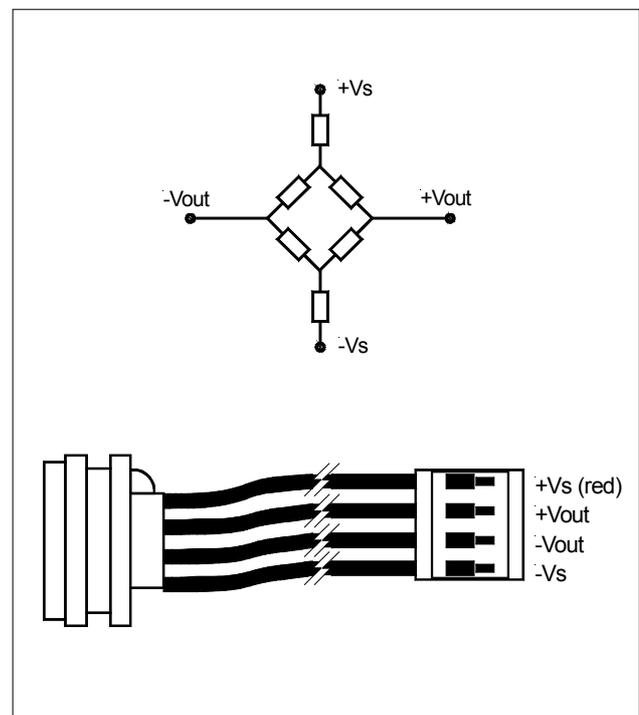
Scale: 1 cm  
1 inch

### SPECIFICATIONS

#### Maximum ratings

|                             |                    |
|-----------------------------|--------------------|
| Supply voltage              | 6 V                |
| Temperature limits          |                    |
| Storage                     | -40°C to 70°C      |
| Operating                   | -40°C to 70°C      |
| Compensated                 | 10°C to 40°C       |
| Vibration (5 Hz to 500 Hz)  | 2 g <sub>RMS</sub> |
| Mechanical shock ( 11 ms)   | 50 g               |
| Proof pressure <sup>1</sup> | 3 bar              |

### ELECTRICAL CONNECTION



# SSC1001GA

## Temperature compensated silicon stainless steel pressure sensors

### PERFORMANCE CHARACTERISTICS

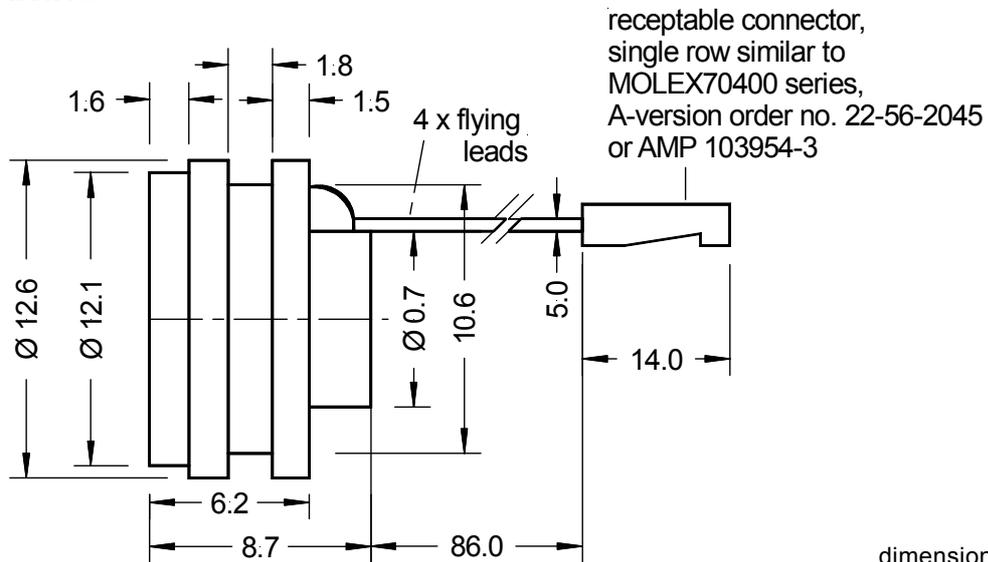
(unless otherwise noted,  $V_s = 5\text{ V}$ ,  $t_{amb} = 25^\circ\text{C}$ )

| Characteristics   | Min.  | Typ.      | Max.      | Unit          |
|---|-------|-----------|-----------|---------------|
| Operating pressure  |       |           | 1         | bar           |
| Zero pressure offset  | -0.75 |           | 0.75      | mV            |
| Full scale span <sup>2</sup>  | 13.7  | 14.5      | 15.3      |               |
| Combined non-linearity <sup>3</sup> , hysteresis and temperature variation, $t_{amb} = 10\text{ to }40^\circ\text{C}$ |       | $\pm 1.0$ | $\pm 4.0$ | %FSO          |
| Maximum current consumption   |       | 5.0       |           | mA            |
| Output impedance  |       | 350       |           | $\Omega$      |
| Common mode voltage   |       | 2.5       |           | V             |
| Response time   |       | 100       |           | $\mu\text{s}$ |
| Life time   |       | 50000     |           | hours         |

#### Specification notes (for all devices):

1. Proof pressure is the max. pressure which may be applied without causing damage to the sensing element.
2. Span is the algebraic difference between the output at full scale pressure and offset.
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).

### OUTLINE DRAWING



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