SSC1001GA

Temperature compensated silicon stainless steel pressure sensors

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

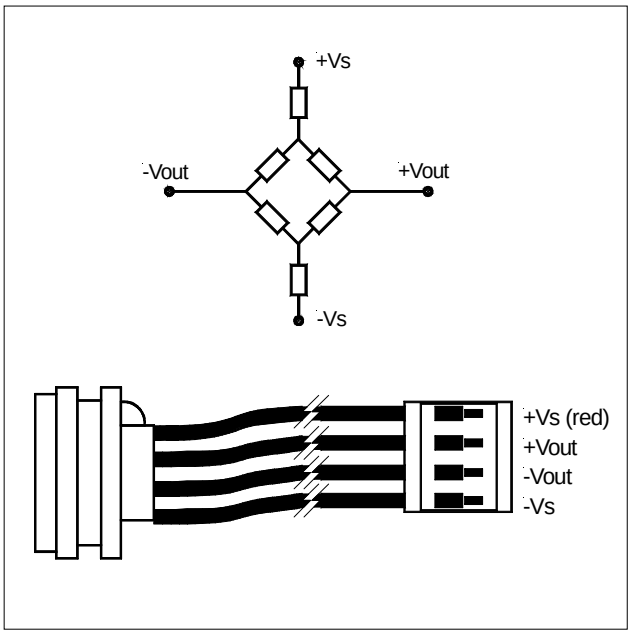
Media wetted parts: any liquid or vapor that is compatible with stainless steel 316L (1.4401)

SPECIFICATIONS

Maximum ratings

Supply voltage	6 V
Temperature limits	
Storage	-40...70 °C
Operating	-40...70 °C
Compensated	10...40 °C
Vibration (5 Hz to 500 Hz)	2 g_{RMS}
Mechanical shock (11 ms)	50 g
Proof pressure[1]	3 bar

ELECTRICAL CONNECTION



PERFORMANCE CHARACTERISTICS

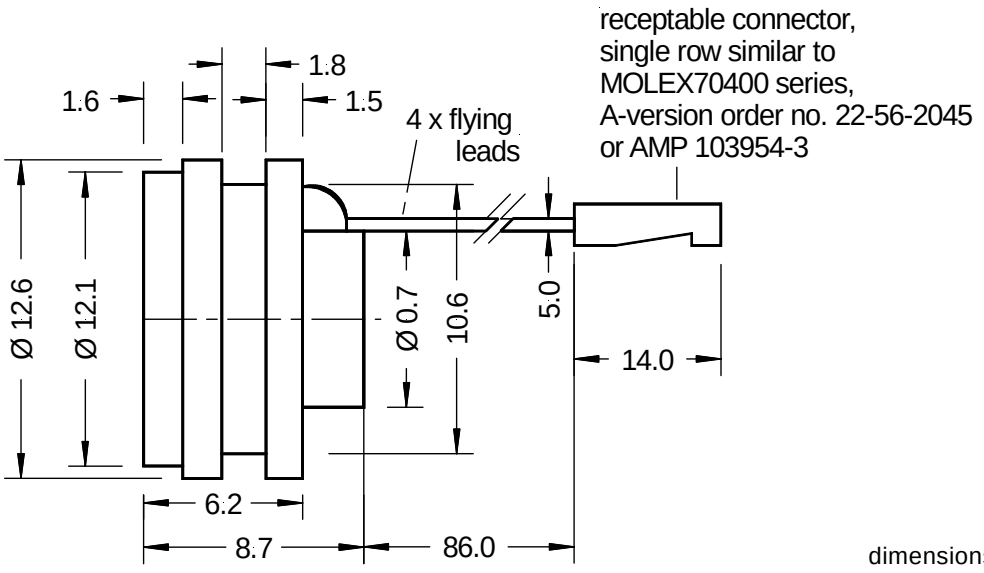
(unless otherwise noted, V_S = 5 V, t_{amb} = 25°C)

Characteristics	Min.	Typ.	Max.	Unit
Operating pressure			1	bar
Zero pressure offset	-0.75		0.75	mV
Full scale span[2]	13.7	14.5	15.3	
Combined non-linearity [3], hysteresis and temperature variation, t_{amb} = 10 to 40 °C		±1.0	±4.0	%FSO
Maximum current consumption		5.0		mA
Output impedance		350		Ω
Common mode voltage		2.5		V
Response time		100		µs
Life time		50000		hours

Specification notes:

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 "**B**est **S**traight **L**ine" through three points (offset pressure, full scale pressure and half scale pressure).

OUTLINE DRAWING



mass: 7 g

dimensions in mm