



## KYSS-01 Series Silicon Strain Sensors

### I. Description

KangYu Silicon Strain technology introduced in 2010, after years of continuous improvement and innovation, form KangYu's core technology with independent intellectual property rights and design patents. KangYu has become one of a few domestic manufacturers with complete industrial chain of sensor technology.

KYSS-01 series silicon strain sensor is a dual-stress screw-in cake structure. It can effectively improve product stability, reliability and accuracy. the pressure base and substrate are separated, using the thread-in package, conducive to large-scale production. Improve production efficiency, product quality, and further reducing production costs. Excellent structure with patented technology has greatly improved the product quality price ratio.

### II. Characteristics

- Measure Range: 1~35MPa
- dual-stress screw-in cake structure
- No O-rings, no welds, no silicon oil
- Excellent Media compatibility
- 3 times overloaded pressure, 5 times burst pressure



### III. Specifications

Constant voltage power supply: 5V reference temperature: 25 °C (unless otherwise noted)



Parameter	Min.	typical	Max.	Unit	Note
<b>General</b>					
Overload Pressure	3X			Rated	
Burst Pressure	5X			Rated	
<b>Environmental</b>					
Working Temperature	-40		125	°C	
Compensated Temperature					
Storage Temperature	-45		140	°C	
<b>Specifications</b>					
Zero Output	-20	0	20	mV	
Full Range Output	80	100	120	mV	
Accuracy (non-linearity, hysteresis and repeatability)	-0.5	±0.25	0.5	%FSO	
Zero temperature shift	-15		15	%FSO	
Full scale temperature shift	-25		25	%FSO	
Long-term stability (1Y)	-0.5	±0.3	0.5	%FSO	
Response time			1	ms	
<b>Electrical Performance</b>					
Input Impedance	1.5	2.5	3.5	kΩ	
Output Impedance	1.5	2.5	3.5	kΩ	
Insulation Resistance	220			MΩ/250VDC	
<b>Mechanical Performance</b>					
Medium	Compatible with 630 stainless steel				
Weight					

## IV How to Order

Code	Pressure Range
010	0~1.0MPa
020	0~2.0MPa
050	0~5.0MPa
100	0~10.0MPa
200	0~20.0MPa
350	0~35.0MPa

Example: **KYSS—G—01—010—A**

- Accuracy (A=0.25%; B=0.5%)
- 0~1.0MPa
- dual-stress screw-in cake structure
- Gage pressure
- KY silicon strain sensor

Xinhui KangYu Control Systems Engineering, Inc.

Guifeng Hightech Village, Ximen Rd., Xinhui District, Jiangmen City, Guangdong 529100, P.R. China

Tel: 86-750-6318857 Fax: 86-750-6318900 E-mail: [sale@chinakangyu.com](mailto:sale@chinakangyu.com) Website: [www.chinakangyu.com](http://www.chinakangyu.com)