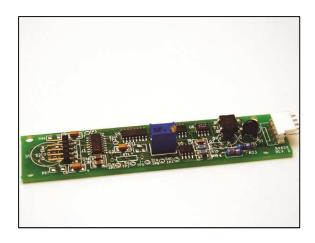
JEWEII Instruments

The Tulip-SC is a precision 4-20mA signal conditioning card for use with all Jewell Instruments miniature tilt sensors. Each Tulip-SC card operates one single axis tilt sensor. Tilt output is measured as a 4-20mA output. The Tulip-SC is current loop powered, so measurements can be made over long cable lengths using an economical 2-wire pair. Units also come with an on-board thermistor for measuring temperature. Jewell provides factory calibration for all Tulip-SC electronics when ordered with our 84053 and 84064 Ceramic, or Model 755- and 756- miniature tilt sensors.



Input Channels	1 Tilt Channel (X or Y)		
Output Signal	4-20mA, 2-wire Current Loop		
Gain Settings	Fixed		
Standard Calibration	<u>Sensor Type</u>	Scale Factor	<u>Range</u>
	755-Series	0.0625°/mA	±0.5°
	756-Series	0.625°/mA	±5.0°
	84053	0.375°/mA	±3.0°
	84064-02	6.25°/mA	±50.0°
Output Filter		0.15 sec ¹	
Temperature Output	2500-Ohm thermistor, on-board (type-B curve)		
Power	(0.02 Ampere x R + 10 VDC) < Vs < 29 VDC		
Environmental	-40 to +85°C operation and storage, 0-90% humidity non-condensing		
Dimensions	4.05 x 0.92 x 0.51 in (103 x 23.4 x 13 mm), 0.5 oz (15 g)		
Materials	Fiberglass PCB, surface mount components		
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Specifications subject to change without notice on account of continued product research and development

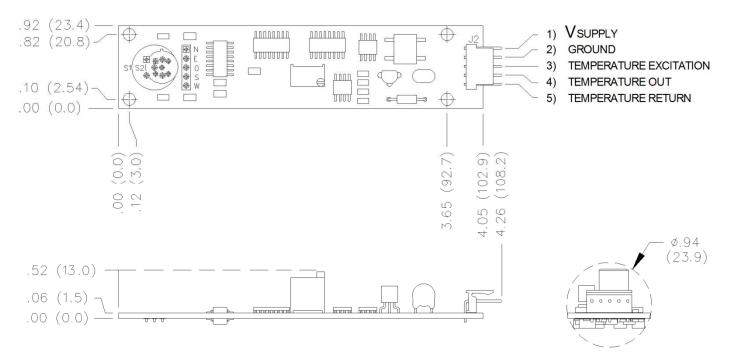
Ordering Code:

Model no.	Part no.	Description
TULIP-SC	84829	Tulip Signal Conditioning Card, 4-20mA, Single Channel, Fixed Gain and Filter
70382-03	70382-03	Miniature Tilt Sensor Hookup Cable, 9-conductor (3 twisted shielded triples), specify required length on order

TULIP-SC 4-20mA Signal Conditioning Card

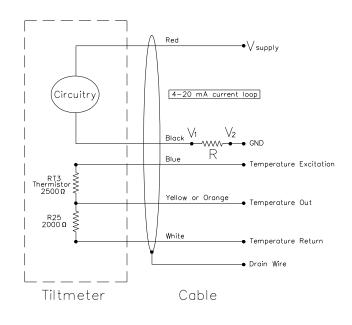


Dimensions:

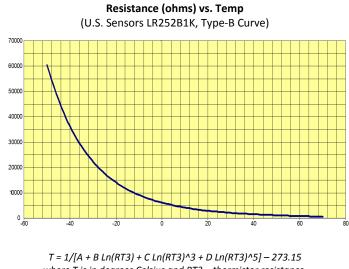


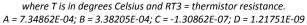
Dimensions in inches (mm)

Circuit Diagram:



Thermistor Output:





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