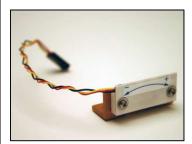
Model 84053, 59577

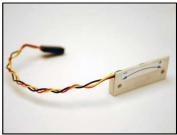
Mid-range Ceramic Tilt Sensor



The Model 84053 Mid-range Ceramic Tilt Sensor is a compact and robust electrolytic tilt sensor with up to 1.75 μ radian resolution. Units come complete with Aluminum mounting bracket for easy installation. Order without mounting bracket as the model 59577 (performance is the same). Total range is $\pm 6^{\circ}$, linear range is $\pm 3^{\circ}$. All 84053 and 59577 Ceramic Tilt Sensors include calibration over $\pm 3^{\circ}$ when ordered with Jewell electronics (or specify special/custom calibrated ranges on order). Use the 84053 and 59577 sensor for precision OEM applications where small size and peak performance are key.



Model 84053 Mid-range (with mounting bracket)



Model 59577 Mid-range (without mounting bracket)

	Model 84053 and 59577 Mid-range Ceramic Sensors
Total Range (max) ¹	±6°
Linear Range	±3°
Resolution	<0.0001° (<1.75 μradian)
Repeatability	0.0002° (3.5 μradian static)
Non-Linearity (half span, typical) ²	2%
Non-Linearity (full span, typical) ²	8%
Natural Frequency	3 Hz
Time Constant	0.15 sec
Kz Temp Coefficient (bias/°C)	±3.5 μradians/°C (typical)
Ks Temp Coefficient (%/°C) ³	0.04%/°C (typical)
Operating Temperature	-50°C to +125°C
Storage Temperature	-75°C to +150°C
Weight	84053 24g ; 59577 = 9.5g
Materials	Ceramic sensor, gold anodized Al, Teflon lead wire
Sensor Excitation	Use with any Jewell Instruments signal conditioner

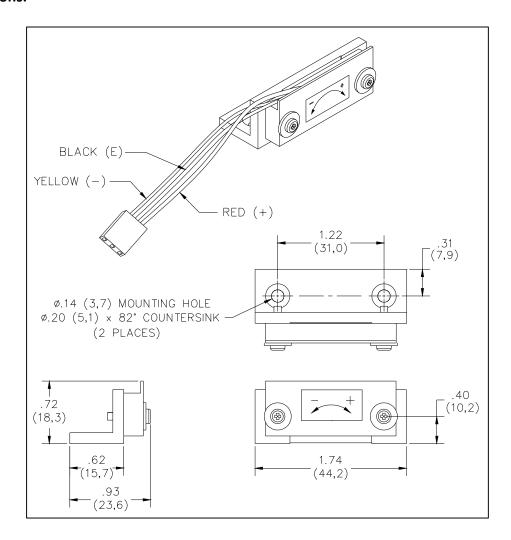
Specifications subject to change without notice on account of continued product development; 1 Specify calibrated range on order; 2 Max non-linearity from BFSL drawn through calibration curve, to 0.05% linearity with 5^{th} order polynomial; 3 Ks = % change in scale factor per $^{\circ}$ C typical

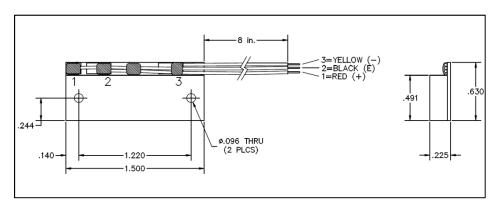
Ordering Code:

Model No.	Description
84053	Mid-Range Ceramic Tilt Sensor Assembly, ±6° total range (±3° linear), with Mounting Bracket
59577	Mid-Range Ceramic Tilt Sensor (bare), ±6° total range (±3° linear), no Mounting Bracket



Dimensions:





Dimensions in inches (mm)