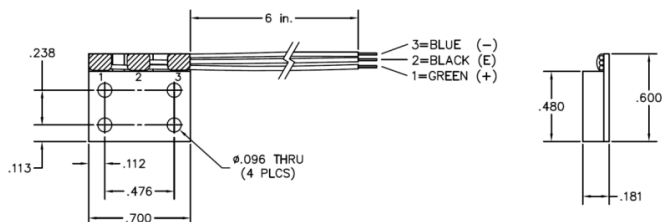
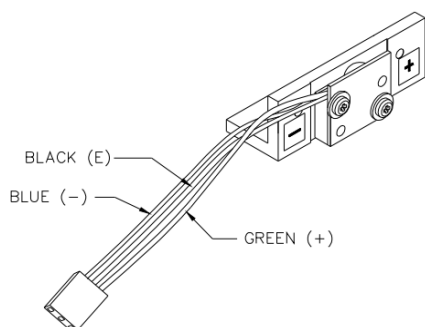


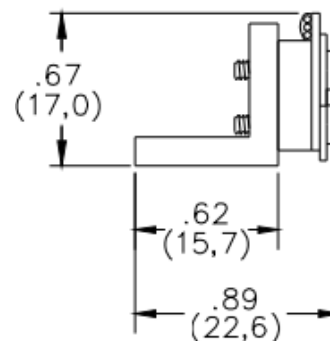
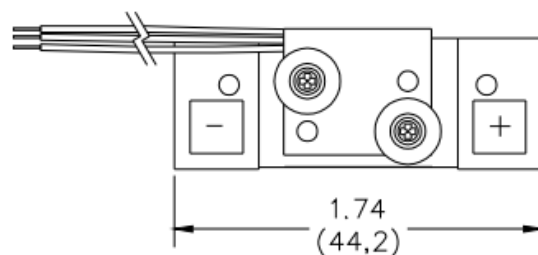
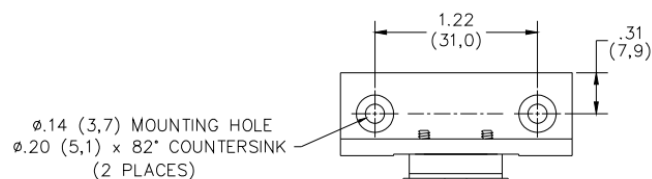
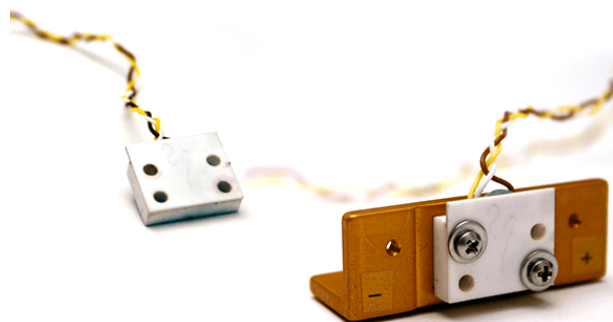
84064-2/59579-2

Wide-Angle Ceramic Tilt Sensor

The Model 84064-02 Wide-angle Ceramic Tilt Sensor is a high-precision electrolytic tilt sensor with wide dynamic range. Units come complete with Aluminum mounting bracket for easy installation. Order without mounting bracket as the model 59579-02 (performance is the same). Total range is $\pm 80^\circ$; linear range is $\pm 60^\circ$. All 84064-02 and 59579-02 Ceramic Tilt Sensors include calibration over $\pm 50^\circ$ when ordered with Jewell electronics (or specify special/custom calibrated ranges on order). Use the 84064-02 and 59579-02 sensor for wide-angle sensor applications where high performance and linearity over range are key.



Dimensions: in [mm]





PERFORMANCE SPECIFICATIONS

PERFORMANCE

VERSION	Model 84064-02 and 59579-02 Wide-angle Ceramic Sensors
TOTAL RANGE (°) ¹	±80°
LINEAR RANGE (°)	±60°
NONLINEARITY (%FRO) ² max	1% half span (2% full span)
NONREPEATABILITY	0.02°
RESOLUTION	0.001°
TIME CONSTANT	0.15 sec
K _z TEMP COEFFICIENT (°/°C)	±3.5 μradians/°C (typical)
K _s TEMP COEFFICIENT (%/°C)	0.04%/°C (typical)

ELECTRICAL & ENVIRONMENTAL

OPERATING TEMPERATURE RANGE	-50 °C to +125 °C
STORAGE TEMPERATURE RANGE	-75 °C to +150 °C
WEIGHT	84064-02 = 24g ; 59577 = 5g
MATERIALS	Ceramic sensor, gold anodized Al, Teflon lead wire
SENSOR EXCITATION	Use with any Jewell Instruments signal conditioner

NOTES:

1. Custom ranges available on request
2. Nonlinearity is specified as deviation of output referenced to theoretical sine function value, independent of misalignment

Specifications are subject to change without notice due to continued product development

ORDERING CODE

MODEL NO.	DESCRIPTION
84064-02	Wide-angle Ceramic Tilt Sensor Assembly, ±80° total range (±60° linear), with Mounting Bracket
59579-02	Wide-angle Ceramic Tilt Sensor (bare), ±80° total range (±60° linear), no Mounting Bracket