NEW

Thru-Shaft Position Sensor

Series TH100

CLAROSTAT

The TH100 Series Thru-Shaft Position Sensor puts CLAROSTAT proven variable-resistor technology to work in angle-measurement applications such as control lever sensing and equipment positioning feedback. High performance and low cost make it attractive for a wide range of applications. A dual-contact version allows for two mechanically-tracking electrical sections, or true 360-degree quadrature voltage output. Almost any combination of resistance track and switch contact configuration (up to six signal wires) is possible.

Specify electrical output to suit application, even at low order volumes. Special mechanical stop and drive feature configurations are available for a modest tooling charge. Contact CLAROSTAT for more information.

Specifications

Housing Material	Flame-retardant (UL 94 V-0) glass- reinforced thermoplastic	Rotational Life	>1 million full cycles, >5 million dither cycles (2 degree stroke, 60
Lead Wires	Up to six 20 AWG, SAE J-1560 Type TXL Stranded (7 x 28AWG). Red, Black, White are standard. Header connector option available.		strokes/sec), result in <10% total resistance change.
		Actuation Torque	6 oz-in (splash-sealed), 10 oz-in (immersion-sealed)
Resistance	Values available from 1K to 1M. Contact Clarostat for information	Vibration	15g @ 50 to 1000 Hz
Resistance Tolerance	+/-15% standard, to +/-2% special (laser trimmed)	Shock	50g half-sine
		Humidity	0-95% non-condensing
Linearity	+/- 5% standard, to +/- 1% special (laser trimmed)	Moisture Sealing	Fully Sealed unit withstands hose- directed water spray and immer- sion at limited depth. Splash-
Temperature Coefficient	+/-500 ppm max.		Sealed unit withstands dripping
Power Rating	1/2W max.		and light splashing of liquids.
Switch Current Rating	125 mA max at 28 VDC	Dust Sealing	Sealed against dust
Stop Torque	5 in-lb min.	Storage & Operating Temperture	-40C to +120C
Mechanical travel w/stops	Up to 330° (single contact), up to 150° (dual contact). Standard travel 90°,106° and 313°. Other angles optional	Working Voltage	350 VDC across resistance
			element, not to exceed power or current rating
Mechanical travel w/o stops	Continuous, or user can include stops in host drive mechanism.	Dielectric Withstanding Voltage	500 VAC RMS
Rotor Drive Configuration	Standard 1/4"Thru-Shaft with 0.105" wide x 0.090" deep drive slot. Other drive features optional. Thru-Shaft 1/4" dia max.		
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How to Order . . .

When ordering, indicate the desired options as shown in this example:



angle (5°each end).

angle (5 each enu).

Dimensions .



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