

TRANS-TEK传感器330全系列参数

产品名称	TRANS-TEK传感器330全系列参数
公司名称	深圳市源诚精工设备有限公司
价格	1.00/台
规格参数	品牌:TRANS-TEK 型号:0330-0000
公司地址	深圳市坪山区坪山街道六和社区兰竹西路33号中心公馆1栋1-10A03 (注册地址)
联系电话	0755-89665498 19842793787

产品详情

TRANS-TEK传感器330全系列型号:0330-0000,0331-0000,0332-0000,0333-0000,0334-0000,0335-0000,0336-0000,0337-0000

Series 3303/8 Inch AC Gaging LVDTs

The Series 330 3/8 AC Gaging LVDTs provide precise linear displacement sensing in a compact, spring loaded package. Advanced coil winding techniques are employed to minimize package length and optimize overall performance. Spring forces have been carefully selected to insure the proper balance of mechanical frequency response and tip force. Available in strokes ranging from ± 0.005 to ± 1.0 , these sensors are ideally suited to material thickness measurements, single or multi-point surface profiling, creep testing, or any other application re the use of a small, spring loaded LVDT. These transducers are also an excellent replacement for a standard dial indicator.

KEY FEATURES

Ranges from ± 0.005 " to ± 1.0 "

Self-Lubricating Bearing

Non-linearity 0.20%

20 MicroInch Repeatability

SPECIFICATIONS - ELECTRICAL (Reference frequency 7.0 KHz)

MODEL UNITS 0330-0000 0331-0000 0332-0000 0333-0000 0334-0000 0335-0000 0336-0000 0337-0000
LINEAR RANGE \pm Inches \pm (mm) 0.005(0.13) 0.01(0.26) 0.025(0.64) 0.05(1.27) 0.1(2.54) 0.25(6.35) 0.5(12.7) 1.0(25.4)
NON LINEARITY $< \pm 0.25\%$ Max. $< \pm 0.20\%$ Max. OVERTRAVEL OUTPUT MONOTONIC OVER ENTIRE

MECHANICAL TRAVELTEMPERATURE RANGE-4 ° F to +176 ° F (-20 ° C to +80 ° C) (OPERATING)
-65 ° F to +176 ° F (-54 ° C to +80 ° C) (STORAGE)TEMP. COEFFICIENTSZERO: < ± 0.001% Linear
Range/ ° F SENSITIVITY: < ± 0.01% / ° FSENSITIVITYV/in./V ± 10%44444210.5PHASE
ANGLE ° 55555000INPUT IMPEDANCEOhms260255250245480320300355INPUT RESISTANCEOhms
DC3636363660223040OUTPUT RESISTANCEOhms DC135135135135205210170185NULL VOLTAGE% V Ex.
Max.0.20.250.30.40.8111MAXIMUM EXCITATION15 VRMS

SPECIFICATIONS - MECHANICAL

MODELUNITS0330-00000331-00000332-00000333-00000334-00000335-00000336-00000337-0000TOTAL
LENGTH AInches (mm)2.45 (62.2)2.45 (62.2)2.45 (62.2)2.45 (62.2)2.93 (74.4)5.35 (136)6.86 (174)10.45
(265)SHAFT EXTENSION BInches (mm)0.65 (16.5)0.65 (16.5)0.65 (16.5)0.65 (16.5)0.83 (21.1)1.22 (30.9)1.69
(42.9)2.60 (66.0)NULL POSITION CInches (mm)0.1 (2.54)0.1 (2.54)0.1 (2.54)0.1 (2.54)0.15 (3.81)0.35 (8.89)0.57
(14.5)1.15 (29.2)SPRING FORCE @ NULLLbs.0.730.730.730.731.070.740.570.70FREQ.
RESPONSEHz25018011075451866

DIMENSIONAL DRAWING

SCHEMATIC

ACCESSORIES

PART NUMBERDESCRIPTIONA002-0041Adapter for alternate contact tips: 5-60 Thread to 4-48 UNF-2B
ThreadG000-0000Contact Tip, AGD #7G000-0008Contact Tip, .30 Spherical O.D.; 5-60 Internal Threads.
(Included with transducer)

DC-DC OPERATION WITH OPTIONAL OSCILLATOR/DEMODULATOR

To facilitate prototyping, or in instances where the preference is a DC in – DC out system, any of the standard or
High Temperature Series 330 can be used in conjunction with the Model 1000- 0014 Oscillator/Demodulator.
Designed to work together, the DC system gives the same level of performance as provided by the AC LVDT alone.
The high level DC output voltage can be directly interfaced with analog circuits as well as data ac cards, PLCs, or A/D
converters. Provisions for customizing the Model 1000-0014 to provide zero offsets and nonstandard gains allow a
simple and cost effective method of tailoring a system to meet individual customer re

SYSTEM SPECIFICATIONS (Combined Performance of LVDT and 1000-0014)

MODELUNITS0330-00000331-00000332-00000333-00000334-00000335-00000336-00000337-0000SIGNAL
OUTPUT ± VDC0.20.41.02.04.05.05.05.0OUTPUT CURRENT ± 3 mA without distortionOUTPUT
RIPPLEVRMS0.0040.0080.020.030.030.030.03POWER INPUT ± 14.5 to ± 28 VDC @ ± 100 mA Max., Input
polarity protectedTEMPERATURE RANGE1000-0014+32 ° F to +158 ° F (0 ° C to +70 ° C) (Operating) -65
° F to +257 ° F (-54 ° C to +125 ° C) (Storage)TEMP. COEFFICIENTS1000-0014Zero < ± 0.00035 VDC/ ° F
Sensitivity < ± 0.02%/ ° F