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DR36N10KB7G



Actual product appearance may vary.

DuraStar Rodless Linear Position Transducer, 914,4 mm [36.0 in] Electrical Travel, Hirschmann GDM Termination, Item Number 9810411

Features

Vibration damped element- No wiper bounce in high vibration environments
 Extended side bearing- Improved life under high misalignment
 Extruded wiper carrier guides - Smooth operation under large misalignment
 Rugged ribbed housing- For industrial environment
 Precious metal wipers - Insures high performance, low noise, no oxidation
 MystR[®] plastic elements - Tested up to one billion operations
 High DC level output- Works with simple controllers
 High performance bearings - Long life even under side-load conditions
 Absolute continuous measurement- Accurate position at power -up

Potential Applications

Injection molding machines
 Printing presses
 Meat packing equipment
 Drill presses
 Woodworking machines
 Cranes
 Front-end loaders
 Scales

Description

The DuraStar rodless linear position transducer incorporates over fifty years of MystR[®] technology into the longest lasting factory-rugged potentiometer. It allows large misalignment of shaft and housing, while providing whisper-quiet operation and smooth, clean signal output. MystR[®] provides the DuraStar excellent durability, especially in dither operation which is so often the determining factor in a potentiometer's life. It is an excellent replacement unit to reduce maintenance operations.
 The rodless side-sealed DuraStar can also be used to replace a rodless potentiometer in contaminated applications to improve performance while providing long life.
 Intrinsically safe for Class I, II and III Division I, Groups A, B, C, D, E, F and G for hazardous (indoor/outdoor) NEMA 4 locations. V max.=30 V, I max.=100 mA, Ci=0, Li.=0mH.

Supporting Documentation

- ▣ [Dimensions](#)
- ▣ [Circuitry](#)

Product Specifications	
Supply Voltage	75 Vdc max.
Measurement Type	Linear
Housing Size	1062,5 mm [41.83 in]
Total Mechanical Travel	919,4 mm [36.2 in]
Electrical Travel	914,4 mm [36.0 in]
Starting Force (max.)	0,45 kg [1.0 lb]
Linearity	± 0.1 %
Backlash	0,025 mm [.001 in]
Shaft Material	Stainless Steel
Shaft Diameter	M5 x 0.8 Metric thread
Type of Element	MystR [®] conductive plastic film
Housing Style	Anodized Aluminum
Termination	DIN 43650
Wiper Current	<1 μ A
Resolution	Infinite
Operating Temperature Range	-65 °C to 105 °C [-85 °F to 221 ° F]
Vibration	20 g / 0,75 mm (rms) 5 hz to 2 khz
Shock	50 g 11 ms half sine
Operating Life	one billion dither operations
Total Resistance	10,000 Ohms
Resistance Tolerance	± 20 %
Insulation Resistance	1000 MOhm @ 500 Vdc
Dielectric Strength	1000 V rms
Weight (Ranges)	0,363 kg to 2,22 kg [0.8 lb to 4.9 lb]
Sealing	NEMA 4
UNSPSC Code	41111945
UNSPSC Commodity	41111945 Linear position sensors
Availability	Global
Comments	Note; Mating Connector Included. Options; Electrical Travel, Total Resistance, Linearity
Series Name	DR

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