



DR40N10KB7G



Actual product appearance may vary.

DuraStar Rodless Linear Position Transducer, 1016,0 mm [40.0 in] Electrical Travel, Hirschmann GDM Termination, Item Number 9810412

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
- MystR² 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
- Wookworking machines
- Cranes
- Front-end loaders
- Scales

Description

The DuraStar rodless linear position transducer incorporates over fifty years of MystR² 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. MystR² 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 rodDED 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	1164,0 mm [45.83 in]
Total Mechanical Travel	1021,0 mm [40.2 in]
Electrical Travel	1016,0 mm [40.0 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

My Links

- Login to iCOM
- Login as Rep/AD
- Login as Guest
- Login to Digital University

Keyword Search

Search for product and support information.

All Sensing and Contr

Product Search

Part number search:

Use (*) to expand search

Specification Search