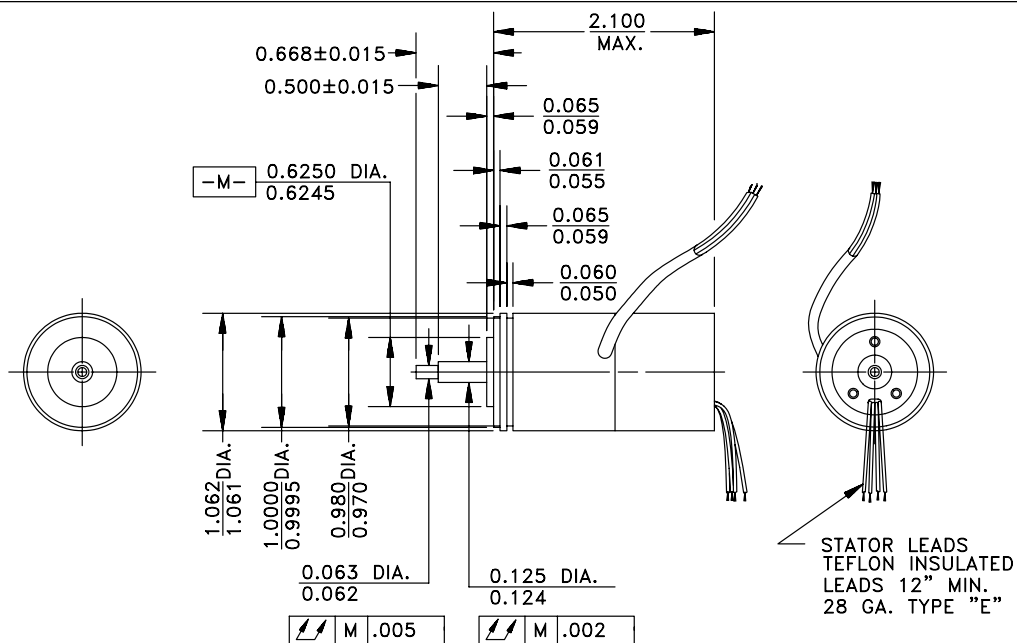


SIZE 11 DUAL DC INDICATOR



NOTES:

1. END PLAY .002/.005
2. ALL DIMENSIONS ARE IN INCHES.
3. HOUSING IS MADE OF ALUMINUM.

5044-196-2.dwg

Description

Dual DC indicator with concentric shaft output for dual pointer applications. DC indicator is a precision brushless position repeater based on the electrical inputs of the two phase windings. Typically, the two phase windings will be excited with a DC voltage at sine and cosine of the angle to be indicated. e.g.

Black (S₃) to Red (S₁) V_{max} X Cos (pointer angle)

Yellow (S₂) to Blue (S₄) V_{max} X Sin (pointer angle)

To establish pointer zero, a V_{max} of rated voltage (10 Vdc) is applied across Black (-) to Red (+) [V_{max} X Cos(0) = +10 Vdc]. If the applied Vdc Black to Red changed to 0 Vdc and Yellow (-) to Blue (+) to +1- Vdc, a pointer attached to the shaft will rotate 90° clockwise from the pointer zero viewing from the shaft end. Depending on the voltages applied to the windings, a pointer can be positioned precisely anywhere on a 360° dial.

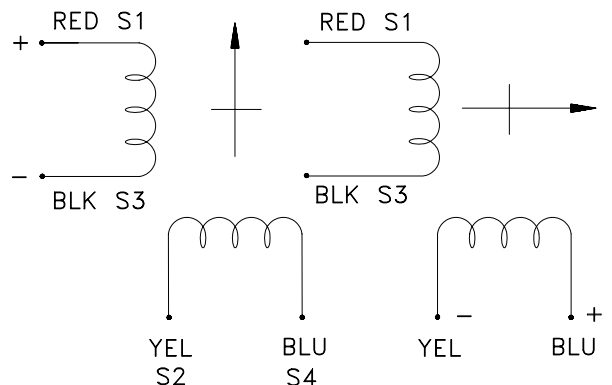
Options

We welcome requests for modifications to fit your exact needs.

Electrical Characteristics

Input Voltage	10	Vdc
Input Current/Phase	167	ma
Input Power/Phase	1.67	watts
Unit Torque Gradient	4,200	mg-mm/deg
Stator Resistance/Phase	60	ohms
Receiver Accuracy	60	minutes

POINTER ROTATION VIEWING SHAFT



11TDW5-005

Date: 4/7/2006

SCOT ELECTRICAL PRODUCTS
Division of Win Technologies Inc.

Title

SIZE 11 DUAL DC INDICATOR

DWG #

SBN1041

REV

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FSCM No. ONFF5