

R11WM107

SIZE 11 BRUSHLESS RESOLVER WITH SHAFT

MICRONOR
automation components

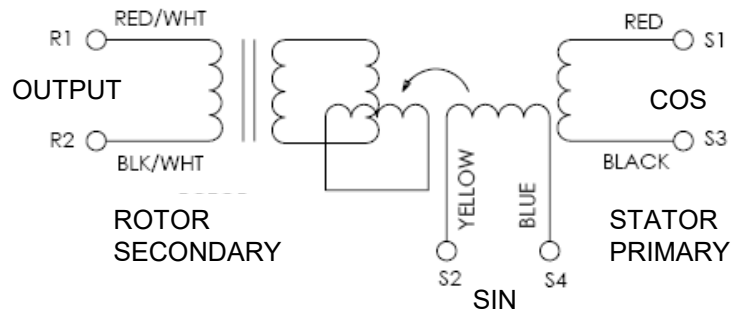
Products

R11WM107 is a Size 11, Control Transformer-type Brushless Resolver replacement for Micron 73-204-479 or Harowe 11BRW-300-M.. series. It is a single speed resolver, optimized for 5000 Hz excitation, TR=0.5 and ± 7 arcmin (0.1°) accuracy.



Diagram

Lead Color	Function
Red/White	Rotor 1
Black/White	Rotor 2
Red	Stator 1
Yellow	Stator 2
Black	Stator 3
Blue	Stator 4



Phasing Equation:

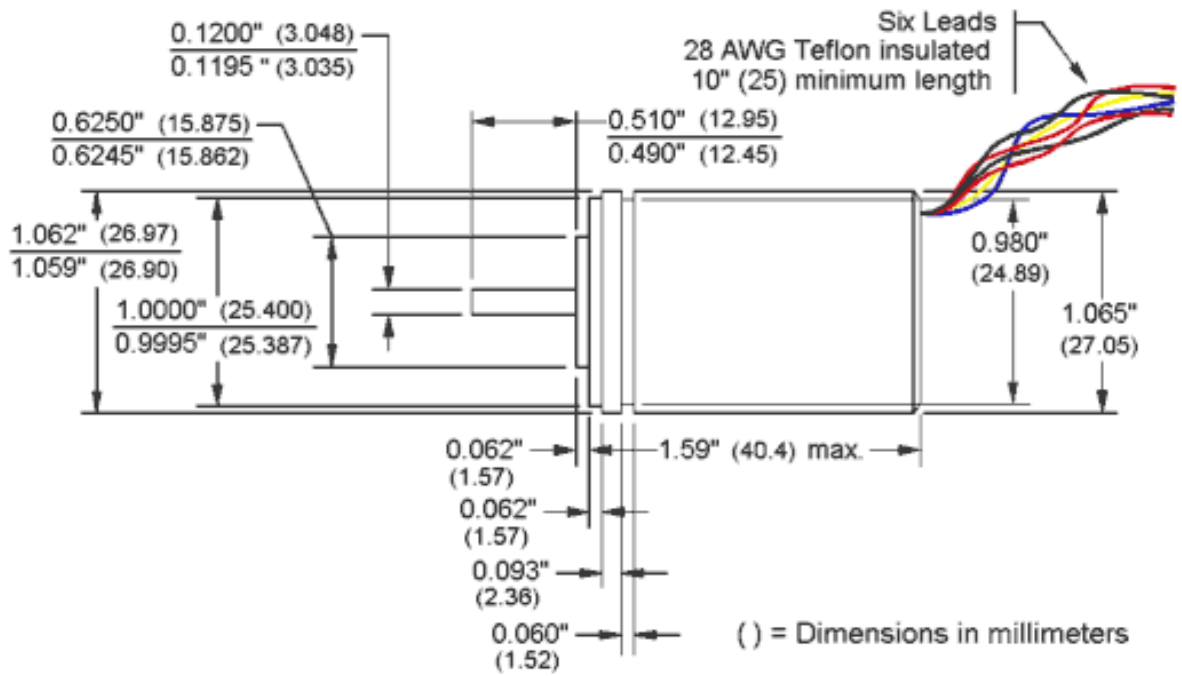
$$E (R1-R2) = K * [E(S1-S3) \cos\theta + E(S2-S4) \sin\theta]$$

Specifications Specifications Subject To Change Without Notice

Parameters measured at 25 °C

Speed	1
Excitation Frequency	5000 Hz $\pm 5\%$
Transformation Ratio (TR)	0.5 $\pm 5\%$
Input Voltage and Frequency	10.0 V, 5000 Hz
Input Current	13 mA max.
Input Power	84 mW max.
Output Voltage	5.0 V
Impedances (Ohms)	
ZRO	215 + j250
ZRS	109 + j193
ZSO	294 + j516
ZSS	140 + j333
Phase Shift (Degree Leading)	-7°
DC Rotor Resistance (Ohms)	16 Ω
DC Stator Resistance (Ohms)	42 Ω
Total Null Voltage (mV)	15 mV
Accuracy Max Error (at 25°C)	± 3 arcmin (0.05°)
Shaft Loading (Max.)	2 lbs. radial / 1 lbs. axial
Starting Torque	0.08 oz-in
Moment of Inertia	0.51×10^{-4} oz-in-sec ²
Operating Temperature	-40°C to +125°C

Reference Drawing



Ordering Info

For Thomson Micron replacements, order:
R11WM107

MICRONOR INC.

900 Calle Plano, Suite K
Camarillo, CA 93012
USA
T +1-805-389-6600
F +1-805-389-6605
sales@micronor.com
www.micronor.com

MICRONOR AG

Pumpwerkstrasse 32
CH-8105 Regensdorf
Switzerland
T +41-44-843-4020
F +41-44-843-4039
sales@micronor.ch
www.micronor.com