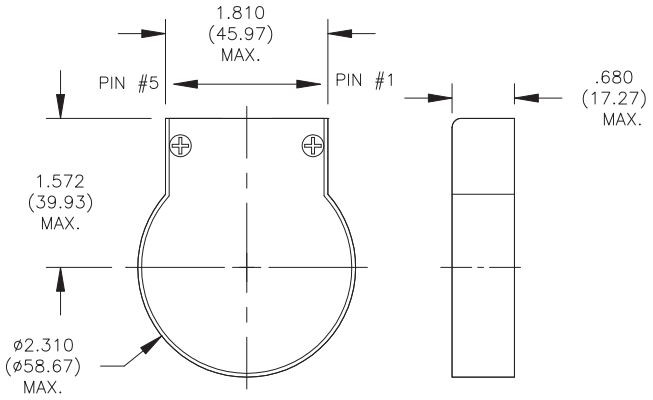
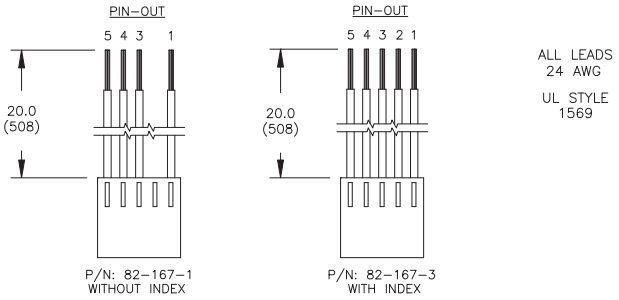
E60 Incremental Optical Encoder



Optional Leadwire Assemblies



E60A Encoder Data	Symbol	Units	Value
Available Resolutions	-	-	2048
Outputs	-	-	2-Channel Quadrature Output
Output Interface	-	-	TTL Compatible
Supply Voltage	V_{cc}	VDC	4.5 to 5.5
Supply Current	I_{cc}	mA	85 max
High Level Output Voltage	V_{OH}	V	2.4 min
Low Level Output Voltage	V_{OL}	V	0.4 max
Maximum Operating Frequency	f_{max}	kHz	100
Maximum Operating Temperature	θ_{max}	°C	-40 to +70
Encoder Weight (Mass)	w_E	oz	3.7
		g	105

E60A Connection Chart		
Pin	**Color**	**Function**
1	Black	Ground
2	-	No Connection
3	Yellow	Channel A
4	Red	V_{cc}
5	Blue	Channel B

Options
• Differential line driver with complementary outputs
• Alternate leadwire assemblies

Notes:

[1] Motor ball bearings are required for optimal performance.

E60B

E60B Encoder Data	Symbol	Units	Value
Available Resolutions	-	-	1000, 1024
Outputs	-	-	3-Channel Quadrature Output with Index Pulse
Output Interface	-	-	TTL Compatible
Supply Voltage	V_{cc}	VDC	4.5 to 5.5
Supply Current	I_{cc}	mA	85 max
High Level Output Voltage	V_{OH}	V	2.4 min
Low Level Output Voltage	V_{OL}	V	0.4 max
Maximum Operating Frequency	f_{max}	kHz	100
Maximum Operating Temperature	θ_{max}	°C	-40 to +100
Encoder Weight (Mass)	w_E	oz	3.7
		g	105

E60B Connection Chart		
Pin	Color	Function
1	Black	Ground
2	Green	Index
3	Yellow	Channel A
4	Red	V_{cc}
5	Blue	Channel B

Options
• Differential line driver with complementary outputs
• Alternate leadwire assemblies

Notes:

[1] Motor ball bearings are required for optimal performance.

[2] 2.7k Ohm pull-up resistors recommended for E60B.

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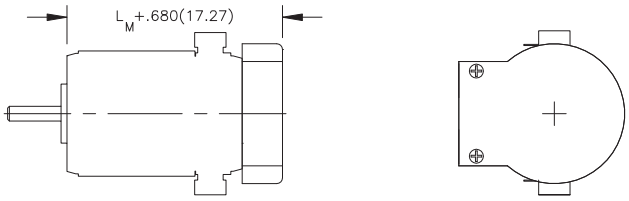
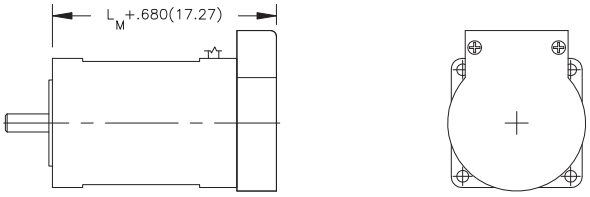
For use with the following motor series:

14200 Series Motor with E60



Motor	Length L_M max in (mm)
14201	2.953 (75.01)
14202	3.203 (81.36)
14203	3.703 (94.06)
14204	4.078 (103.6)
14205	4.453 (113.1)
14206	4.953 (125.8)
14207	5.703 (144.9)

N2300 Series Motor with E60



Motor	Length L_M max in (mm)
N2311	1.532 (38.91)
N2312	1.982 (50.34)
N2313	2.482 (63.04)
N2314	2.982 (75.74)

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