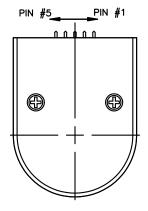
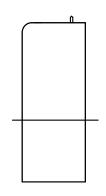
E30 Incremental Optical Encoder



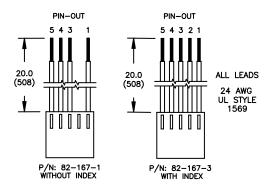




*See individual motor series outline drawings for applicable encoder dimensions

E30A Encoder Data	Symbol	Units	Value
Available Resolutions	-	-	100, 200, 256, 360, 500, 512, 1000, 1024
Output	-	-	2-Channel Quadrature Output
Output Interface	-	-	TTL Compatible
Supply Voltage	V _{cc}	VDC	4.5 to 5.5
Supply Current	I _{cc}	mA	40 max
High Level Output Voltage	V _{OH}	V	2.4 min
Low Level Output Voltage	V _{OL}	V	0.4 max
Maximum Operating Frequency	fmax	kHz	100
Maximum Operating Temperature	θ _{max}	°C	-40 to +100
Encoder Weight (Mass)		OZ	2.0
Encoder Weight (Mass)	W E	g	57

Optional Leadwire Assemblies



E30A Connection Chart		
Pin	Color	Function
1	Black	Ground
2	-	No Connection
3	Yellow	Channel A
4	Red	Vcc
5	Blue	Channel B

Options

- Differential line drive with complementary outputs.
- . Alternate leadwire assemblies.

Notes:

 $^{\rm 1}$ Motor ball bearings are required for optimal performance.

E30B

E30B Encoder Data	Symbol	Units	Value
Available Resolutions	-	-	256, 360, 500,
***************************************			512
			3-Channel
Output			Quadrature
σαιραί	_	-	Output with
			Index Pulse
Output Interface	-	-	TTL Compatible
Supply Voltage	V_{cc}	V	4.5 to 5.5
Supply Current	l cc	mA	85 max
High Level Output Voltage	Vон	V	2.4 min
Low Level Output Voltage	V ol	V	0.4 max
Maximum Operating	£.	kHz	100
Frequency	f max	KIIZ	100
Maximum Operating	0	°C	-40 to +100
Temperature	θ_{max}	J	-40 to +100
Encoder Weight (Mass)		oz	2.0
Liteoder Weight (Mass)	W E	g	57

E30B Connection Chart		
Pin	Color	Function
1	Black	Ground
2	Green	Index
3	Yellow	Channel A
4	Red	Vcc
5	Blue	Channel B

Options

- · Differential line drive 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 E30B.

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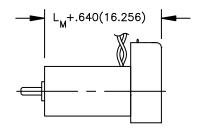


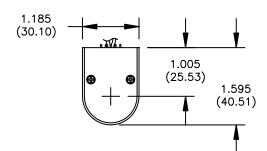
E30 Incremental Optical Encoder



For use with the following motor series

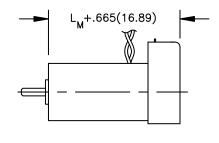
8690 Series Motor with E30

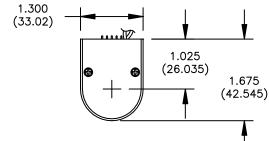




Motor	Length L _M max in (mm)
8691	1.798 (45.67)
8692	1.923 (48.84)
8693	2.173 (55.19)

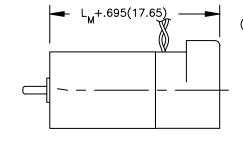
8220 Series Motor with E30

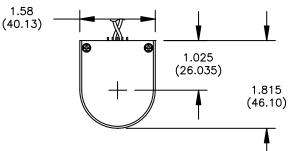




Motor	Length L _M max in (mm)
8222	2.070 (52.58)
8223	2.195 (55.75)
8224	2.445 (62.10)

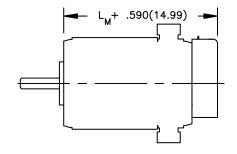
9230 Series Motor with E30

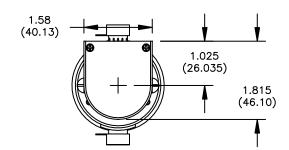




Motor	Length L _M max in (mm)
9232	1.828 (46.43)
9233	2.203 (55.96)
9234	2.403 (61.04)
9235	2.703 (68.66)
9236	3.053 (77.55)
9237	3.353 (85.17)

14200 Series Motor with E30





Motor	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)

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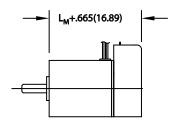


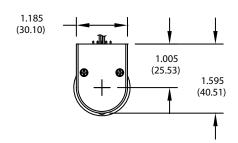
E30 Incremental Optical Encoder



For use with the following motor series

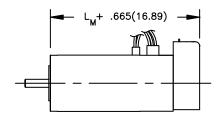
1300 Series Motor with E30

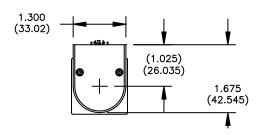




Motor	Length L _M max in (mm)
1301	1.500 (38.10)
1302	2.000 (50.80)
1303	2.500 (63.50)

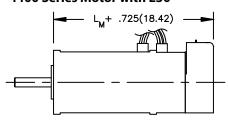
3400 Series Motor with E30

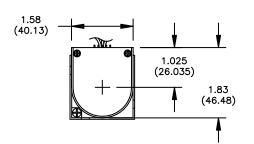




Motor	Length L M max in (mm)
3411	2.322 (58.98)
3412	2.722 (69.14)

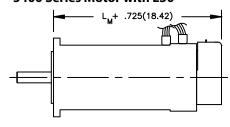
4400 Series Motor with E30

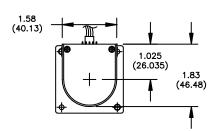




Motor	Length L M max in (mm)
4411	2.655 (67.44)
4412	2.955 (75.06)
4413	3,255 (82,68)

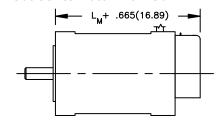
5400 Series Motor with E30

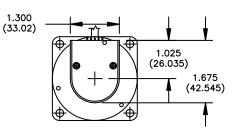




Motor	Length L M max in (mm)
5411	3.165 (80.39)
5412	3.665 (93.09)
5413	4.165 (105.79)

N2300 Series Motor with E30





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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