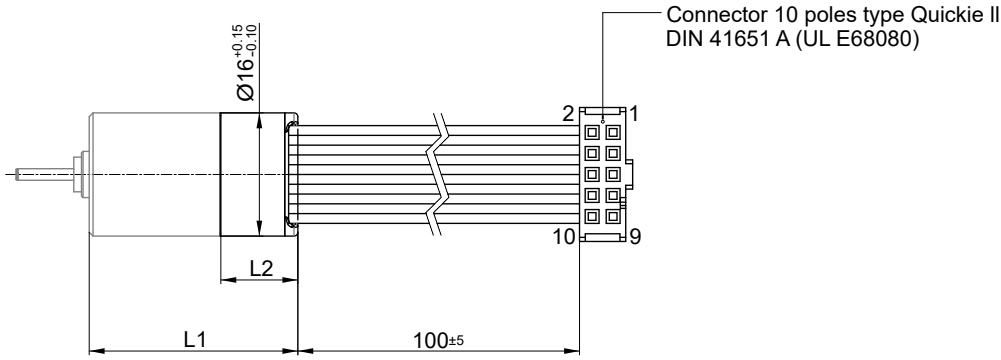


M Sense B

Magnetic Encoder with RS422 Line Driver



Encoder Connections	
1	Motor +
2	Vcc
3	GND
4	Motor -
5	Channel A/
6	Channel A
7	Channel B/
8	Channel B
9	Channel Z/
10	Channel Z

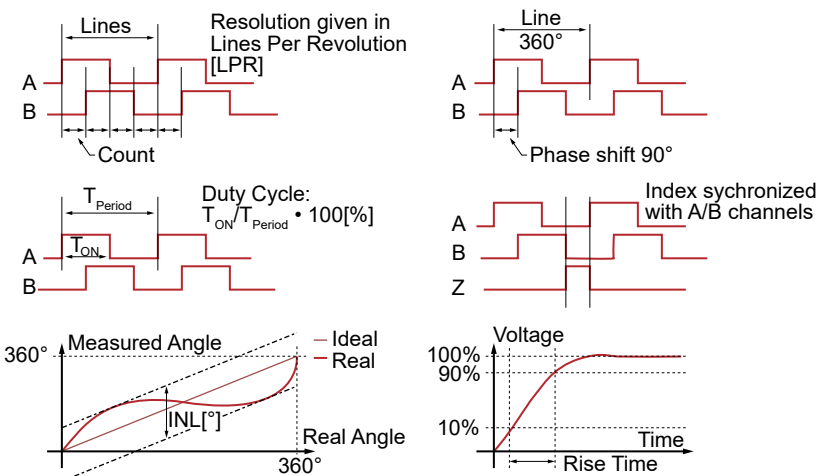
Dimensions in mm.

Electrical Data		Characteristics @ 22° C		Unit
1	Number of Lines Available	1024, 512, 256, 128..1		LPR
2	Supply Voltage	Min/Max	4.5 / 5.5	Volt
3	Supply Current	Typical/Max	16/23	mA
4	Rise/Fall time (CL=50pF)	Max	60	ns
5	Output Frequency		0.5	MHz
6	Electrical Phase Shift	90 ± 45 up to 256 LPR	90 ± 75 for 512 & 1024 LPR	degree
7	Duty Cycle	50 ± 15 up to 256 LPR	50 ± 25 for 512 & 1024 LPR	%
8	INL (Integral Non Linearity)	Max	1.5	degree
9	Maximum Speed @ 1024ppr	Max	30,000	rpm
10	Line Driver Parameters	4mA / 10MHz (default configuration)		
11	Cable Type	AWG28 Ribbon cable pitch 1.27mm		
12	Operating Temperature Range	Min/Max	-40 to +100	°C
13	Weight	Varies by motor size. Contact us.		g (oz)

Available on Motor Types	16DCP	16DCT	16S78	16N98	17DCT	17N78	22S48	22N98
L1 Length with motor mm (in)	**	**	27.1 (1.07)	36.4(1.43)	**	34.4 (1.35)	36.6 (1.44)	46.4 (1.83)
L2 Length with motor mm (in)	**	**	10 (0.39)	10 (0.40)	**	10 (0.40)	9.45 (0.38)	13.1 (0.52)

Available on Motor Types	22DCP	22DCT	24DCT	23GST	25GST	30GT	35NT	35GLT
L1 Length with motor mm (in)	**	**	**	**	**	**	**	**
L2 Length with motor mm (in)	**	**	**	**	**	**	**	**

Available on Motor Types	P110	16ECP36	16ECP52	**Available on request
L1 Length with motor mm (in)	32.4 (1.28)	47.4 (1.86)	63.4 (2.50)	
L2 Length with motor mm (in)	13.6 (0.54)	11.4 (0.45)	11.4 (0.45)	



Encoder performance option available on request (contact us):

Optional Line driver type: 4mA-10MHz (default) / 50mA-10MHz / 50mA-300kHz / 20mA-3MHz. 4mA-10MHz is recommended for use as single ended outputs. Other options are dedicated for use of differential outputs.

Other parameters can be customized: Index synchronization mode, minimal edge distance, direction of rotation, low current mode and other.