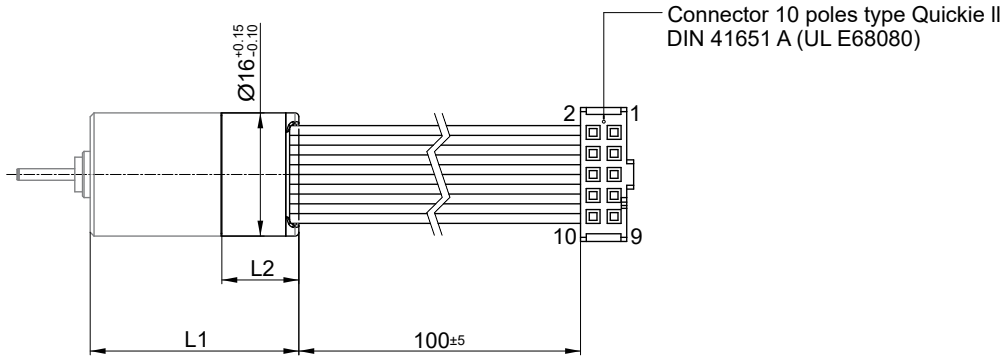


M Sense B

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

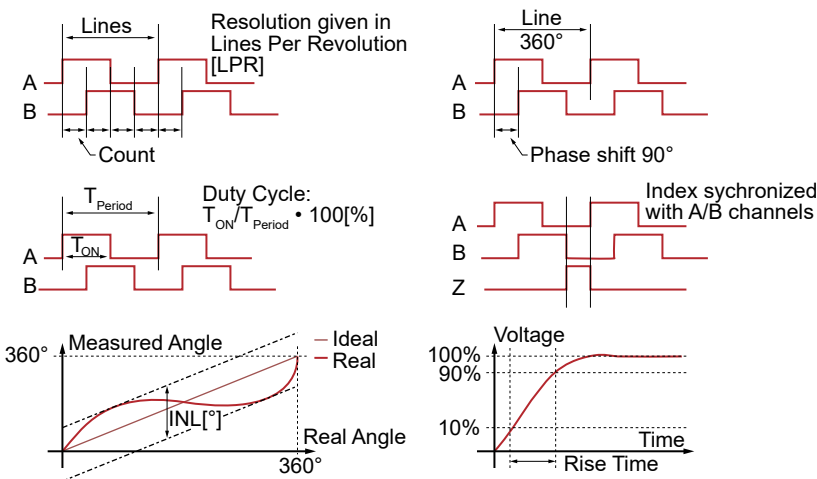
Dimensions in mm.

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 (-40 to +212)	°C
13 Weight	Varies by motor size. Contact us.		g (oz)

Available on Motor Types	16DCP 26P1/P2	16DCP 26G1/G2	16DCT 26P1/P2	16DCT 26G1/G2	16S78	16N98	17DCT 26P1/P2	17DCT 26G1/G2
L1 Length with motor mm (in)	36.1 (1.42)	36.6 (1.44)	36.1 (1.42)	36.6 (1.44)	27.1 (1.07)	36.4(1.43)	36.1 (1.42)	36.6 (1.44)
L2 Length with motor mm (in)	10 (0.40)	10 (0.40)	10 (0.40)	10 (0.40)	10 (0.39)	10 (0.40)	10 (0.40)	10 (0.40)

Available on Motor Types	17N78	22S48	22N98	22DCP	22DCT	24DCT	23GST	25GST
L1 Length with motor mm (in)	34.4 (1.35)	36.6 (1.44)	46.4 (1.83)	**	**	**	**	**
L2 Length with motor mm (in)	10 (0.40)	9.45 (0.38)	13.1 (0.52)	**	**	**	**	**

Available on Motor Types	30GT	35NT	35GLT	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.