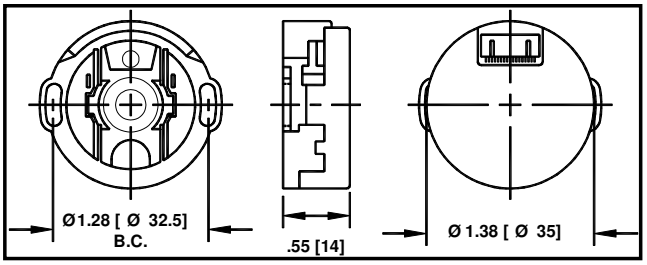
Commutation Encoder, Modular

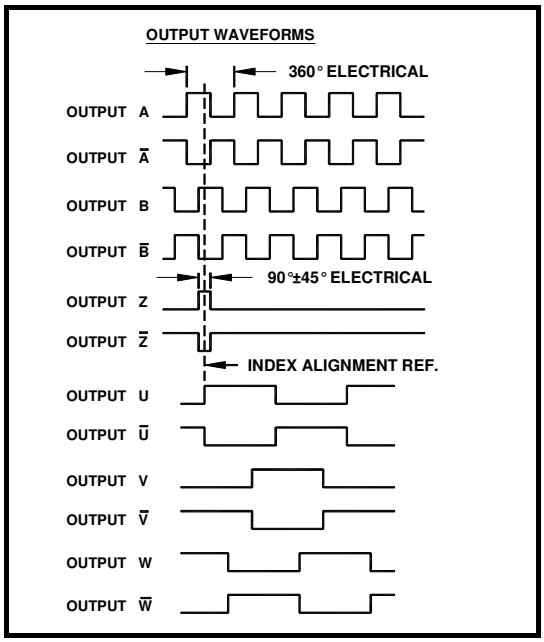
- **Output Channels - Incremental A, B, Z, & Commutation U, V, W**
- **Differential Line Drivers - all 6 channels**
- **Commutation for 4 Pole Motors**
- **Power Requirement - 200 mA @ 5VDC**
- **500 kHz Operating Frequency - all channels**
- **Inertia - 150 µoiss (.00015 oz-in-sec2)**
- **RoHS Compliant to EU Directive 2002/95/EC**
- **Factory installed only**

The Z Series of incremental encoders represents state of the art in ASIC sensor technology. This technology requires fewer components thereby increasing product quality while providing improved precision from a smaller package. Additionally, the precision of the commutation channels is superior to that typically achieved with Hall signals resulting in improved system performance. These units are factory mounted on MCG motors and aligned to the motor's electrical properties which allows "drop-in" replaceability without the need to "initialize" each new motor. Connections to the encoder are made through the motors 16 pin connector referenced below.

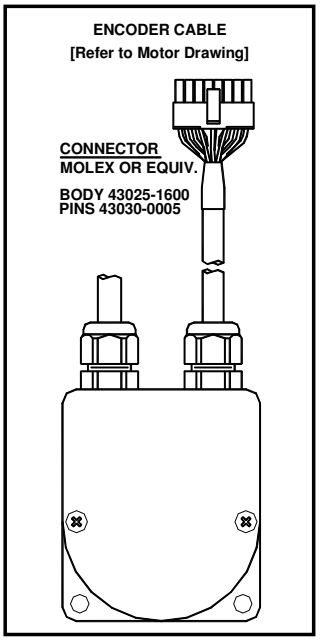
Catalog Number	Line Count	Data Outputs	Pole Count	Disk Material	Operating Temp.
Z1	1000	A, B, Index	4	Metal	-30 to 115C
Z3	2000	A, B, Index	4	Metal	-30 to 115C

Note: Other line counts are available on a special order basis





MOTOR CABLE CONNECTION	
CONNECTOR PIN	FUNCTION
1	Vcc
2	Output A
3	Output B
4	Output Z
5	Output U
6	Output V
7	Output W
8	Case Ground
9	Common
10	Output Ā
11	Output B̄
12	Output Z̄
13	Output Ū
14	Output V̄
15	Output W̄
16	Cable Shield



Applicable Motor / Encoder Combinations

MOTOR CHOICES	ENCODER SERIES		APPLICABLE BRUSHLESS MOTORS									
	Catalog #	Description	I2350	IB17000	IB23800	IB23000	IB32000	IB34000	IB46000	AB23000	AB34000	AB48000
	Z1 & Z3	w/ 4 Pole Commutation	X	na	na	na	na	na	na	na	na	na

Contact us at: www.mcg-net.com