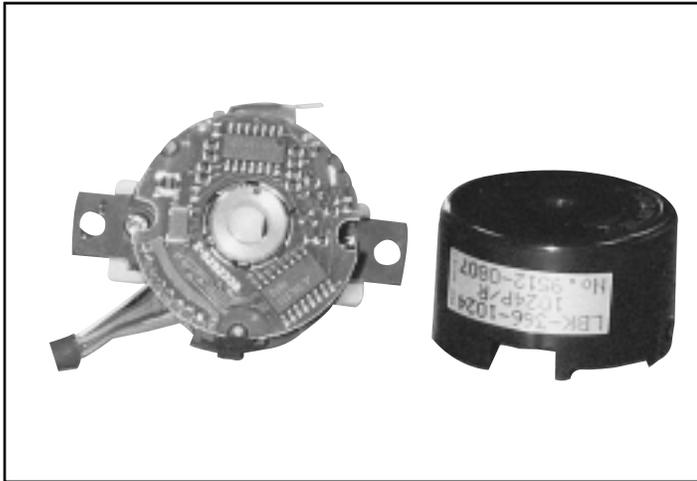


SIZE 15 SERIES LBK INCREMENTAL MODULAR ENCODER



CORPORATION
OF AMERICA

1-800-35-SUMTAK
www.sumtak.com



FEATURES

- 1.5" O.D., modular designed
- Self-aligning, -centering, -gapping
- 100 KHz frequency response
- Up to 1024 P/R
- Positive lock-on cover
- Applications:
Computer printer, Phototypesetter,
Semiconductor Processing, Tape transport,
Digital Plotter, Medical Diagnostic Equipment

SPECIFICATIONS

Electrical

Pulse per Revolution	Up to 1024
Supply Voltage	5Vdc, 12 Vdc, 15 Vdc
Output Format	Dual Square Wave in Quadrature with Index
Output Option	TTL, HTL, Open Collector, TTL Line Driver [26LS31]
Current Requirements	TTL: 80mA Max. HTL: 120mA Max. Open Collector: 80mA Max. TTL Line Driver: 160mA Max. [into No load]
Frequency Resonse	100 KHz
Electrical Connections	20" #28AWG UL Recognized Style 2651 Flat Cable with Pin Connector: Mating Connector Berg #65962-001 not supplied.

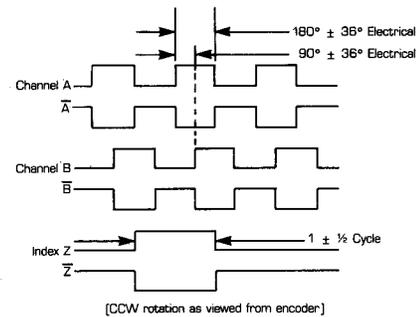
Mechanical

Rated Speed	5000 RPM max.
Shaft Angular Acceleration	104 rad/sec ²
Moment of Inertia	5.8 to 8.8 10 ⁻⁵ oz. in.-sec ² , depending on Hub I.D.
Weight	2.1 oz.

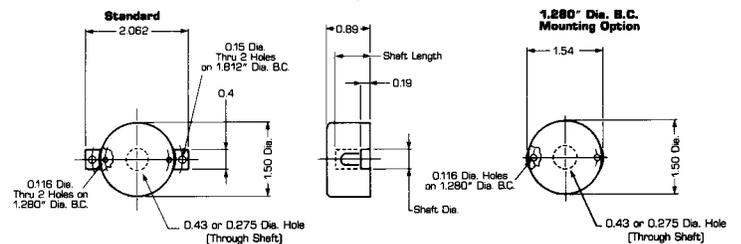
Motor Mounting Requirements

Shaft Tolerance	1/4", 3/8": +0, -0.0006" 4mm, 5mm, 6mm: +0, -0.0012mm 8mm, 10mm: +0, -0.015mm
Shaft Length	0.591"/0.787" [1/4", 4mm, 5mm, 6mm shaft Dia.] 0.670"/0.787" [3/8", 8mm, 10mm Shaft Dia.]
Shaft Axial Movement	1-300 PPR: 0.008" Max. 310-600 PPR: 0.004" Max. 601-1024 PPR: 0.002" Max. [Each Direction]
Shaft Runout	0.002" TIR Max.
Perpendicularity	0.0012" TIR Max. [Shaft to Mounting Surface]
Mounting Holes	#4-40 or M3.2 Holes 180° apart on 1.812" Dia. B.C., or #2-56 or M2.6 for 1.280" Dia. B.C.

OUTPUT WAVE FORMS



OUTLINE DIMENSIONS



OPTIONAL CONNECTOR/ELECTRICAL CONNECTIONS

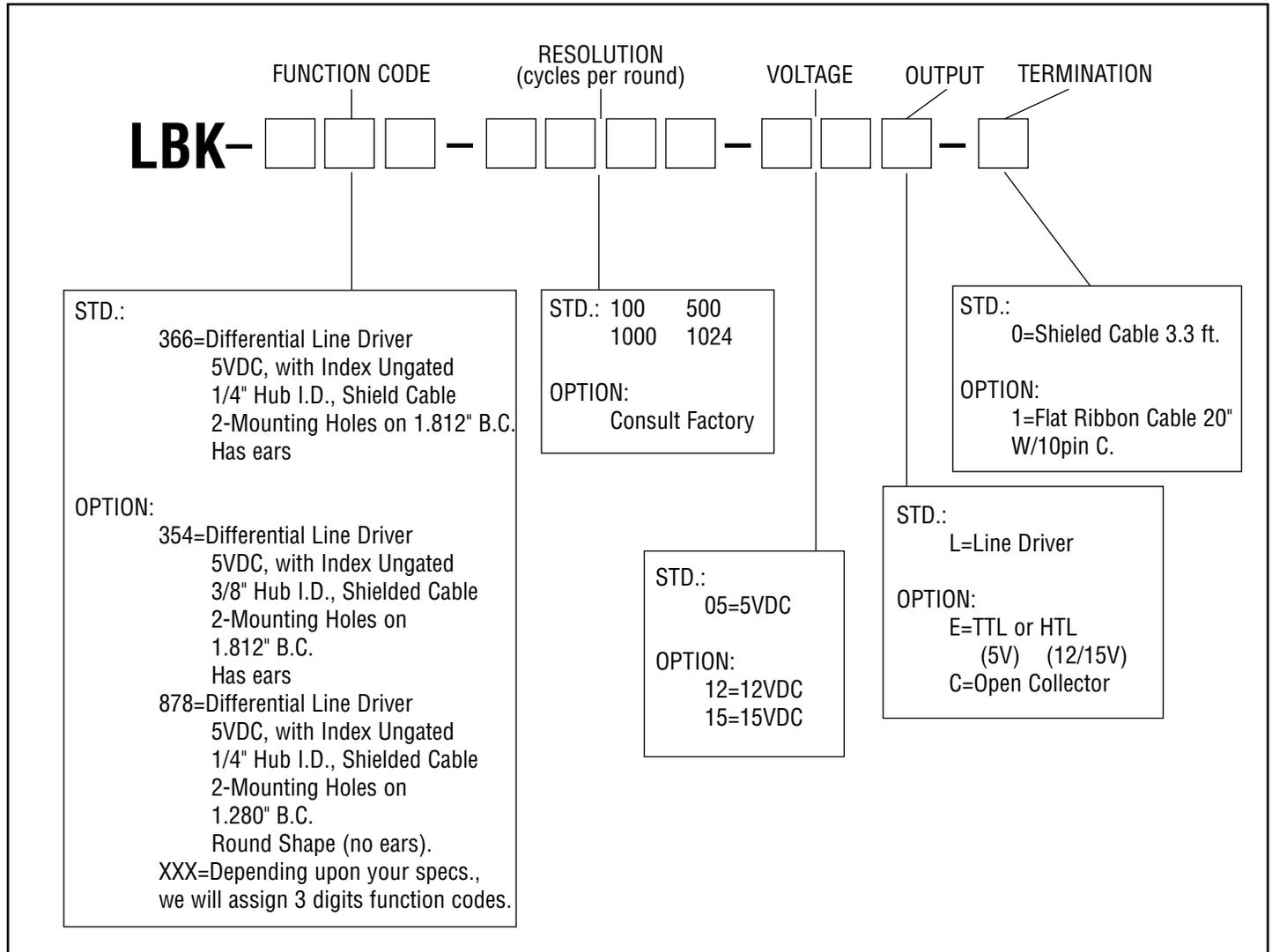
Wire Color	TTL, HTL & Open Collector	Line Driver
White	Vcc	5VDC
Black	0V, Common	0V
Red	A	A
Pink	0V, Common	\bar{A}
Yellow	Z	Z
Orange	0V, Common	\bar{Z}
Green	B	B
Blue	0V, Common	\bar{B}

SPECIFICATIONS

Environmental

Temperature	Operating: 0 ° to +70 °C Storage: -20 °C to +80 °C
Shock	50G's for 6 ms 2 times each X, Y, Z directions
Vibration	10 to 200 Hz @2G's

How to order: **SIZE 15 INCREMENTAL MODULAR**



Available Resolution:
10, 100, 200, 250, 360, 500, 512, 900, 1000, 1024 — Glass

- Standard model has the following specifications.

OUTPUT FORMAT: Dual square wave in quadrature with index. (A, B, Z)

Channel A leads B CCW rotation as viewed from encoder.

INDEX: There is no specified alignment between index and channels

CABLE: 3.3 ft. shielded cable

CONNECTION: +5V: White] A: RED] B: GREEN] Z: YELLOW]
 0V: BLACK] A: PINK] B: BLUE] Z: ORANGE]

- Note: The factory will assist you in construction of the model no. including special specifications. Please contact us. 1-800-35-SUMTAK

- Specifications subject to change without notice.