HEAVY DUTY

SLIM Tach ST67

Bearingless Encoder

Key Features

- Redesigned using our Revolutionary Sensor Technology to provide a Large Air Gap of 0.060"
- Redesigned Circuitry for On-Board Diagnostics with LED and Alarm Output
- Bearingless Design Mounts to Reliance 6.75" Recess, 56 and 140 C-Face Motors
- Anodized Aluminum Housing with Field-Serviceable Connector



NorthStar[™] brand

СС N 61326-1 Rohs

SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental, Magnetic Pulses per Revolution: 64-2048 PPR Phasing Sense: A leads B for Counter-Clockwise rotation (CCW) viewing encoder-mounted end Quadrature Phasing: 90° ± 45° Symmetry: 180° ± 54° Index: Less than phase A/B pulse width Number of Output Modules: Single or Dual

ELECTRICAL

Input Voltage Requirement: 5-26 Volts DC Current Requirement: 95 mA typical per sensor module plus line driver load Output Signals: IC-WE Differential Line Driver: 150mA, sink or source Frequency Response: 0 - 180kHz Data & Index Noise Immunity: Tested to EN61326-1 Electrical Immunity: Reverse polarity and short circuit protected Connector: 10 pin industrial duty latching, sealed NEMA 4 &12, IP65; MS connector or pig-tail Bore Sizes: 5/8" to 2-7/8" Mounting Configuration: 4.5" 56 C-Face or 140 C-Face Mount for NEMA MG1 Standards Max. Shaft Speed: 7,000 RPM Shaft Length Required: 0.7" min Allowable Shaft End-Play: ± 0.1" Allowable Shaft Runout: 0.005" TIR Acceleration Rate: 3,600 rpm/sec max Housing Material: Aluminum Weight: 4 lbs

ELECTRICAL CONNECTIONS

MECHANICAL

Signal	Connector Pin	Pigtail Cable	MS 3102E18-IT#	Conduit Box
Common	1	Black	F	1
В	2	Green	В	5
A	3	Blue	A	3
Z *	4	Violet	С	7
No Connection	5	—	E	—
Vcc (5-26 VDC)	6	Red	D	2
B	7	Yellow	1	6
Ā	8	Gray	Н	4
Z *	9	Orange	J	8
Shield	10	Braid	G	-

* Index (Z) optional. See Ordering Information

ENVIRONMENTAL

Operating Temperature Range: Standard: -40°C to +100°C Extended: -40°C to +120°C Storage Temperature Range: -40°C to +120°C Shock: 300 G's Min. Vibration: 20 G's @ 5-2000 Hz spectrum Humidity: Up to 98% (non-condensing)

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Ordering Information To order, complete the model number with code numbers from the table below:									
Code 1: Model	Code 2: PPR	Code 3: Index	Code 4: Wheel Bore	Code 5: Termination	Code 6: Electrical	Code 7: Cover/Adapter			
ST6 Direct Motor Mounting on NEMA 56 flange (4.5"), or 6.75" pocket. Single output DT6 Direct Motor Mounting on NEMA 56 flange (4.5"), or 6.75" pocket. Dual Output	0064 L No Index 0128 Z Index Sign 0256 0512 1024 2048		C04 0.625" CB4 16 mm C05 0.875" C36 24 mm C06 1.000" C29 25 mm C07 1.125" C31 30 mm C08 1.250" CA4 45 mm C09 1.375" C58 60 mm C10 1.500' C40 80 mm C11 1.625"	 B Conduit Box C Latching Industrial Connector with 1/2" NPT D 1" Extended Height Latching Indus- trial Connector with 1/2" NPT E 3" Extended Height Latching Indus- trial Connector with 1/2" NPT F Latching Industrial Connector without Mating Connector 	 V 5-26V in, 5-26V Line Driver (IC-WE) out 5 5-26V in, 5V out Line Driver (IC-WE) H Same as V but with High Temperature, Extended Operating Range to 120°C 	CC Flat No-Hole Cover EE Extra Heavy Duty Steel Cover FF Flat Thru-Hole Cover			
				 G 1" Extended Height Latching Indus- trial Connector without Mating Connector H 3" Extended Height Latching Indus- trial Connector without Mating Connector M 10 Pin MS Con- nector M 10 Pin MS 3112 Connector P 18" Pigtail Cable (25" when Code 6 = H) Q Latching Industrial Connector on 18" Pigtail Cable R Latching Indus- trial Connector on 18" Pigtail Cable without Mating Connector 					

Note: See ACCESSORIES Section For Connectors, Spare Parts and Pulse Wheels

RL67 LEGACY MODELS

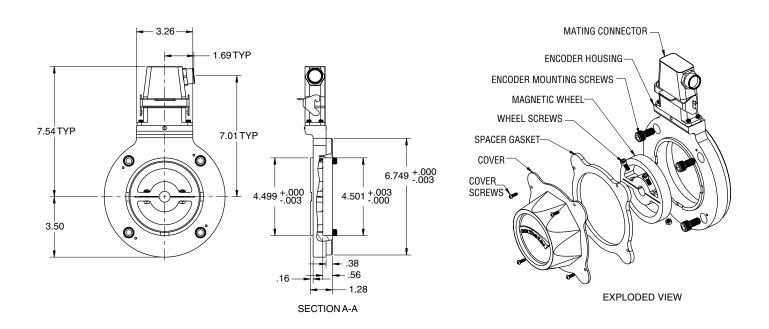
Dynapar's legacy RL67 product line is still available for configurations not currently available in the ST67 product line. For additional bore sizes up to 3.75" maximum, please consult the factory.

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DIMENSIONS inch





Technical Support

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European Sales Representitive

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