



# Model 725

### **Incremental Shaft Encoder**

### Model 725

### Robust, Reliable, Versatile

The EPC Model 725 has been specifically designed for challenging industrial environments. Its all metal construction, heavy duty bearings, IP67 sealing and "encoder-within-an-encoder" design result in a rotary encoder that delivers reliable performance under even the toughest operating conditions.

#### **Features**

- Standard Size 25 package
- Standard and industrial housings
- Servo and flange mounting
- Resolutions to 30,000 CPR
- Temperature range from -40° C to 100° C

### **Applications**

Motion Control Feedback | Conveyors | Elevator Controls | Machine Control | Food Processing | Process Control | Robotics | Material Handling | Textile Machines

### **IP67** Sealing

High-performance shaft seal and dual o-rings between the bearing hub and external case provdie an environmental rating up to IP67, including the M12 connector. Standard seal rating is IP50.

### **Mounting Face Options**

With flange or servo mounting options, the Model 725 is easily integrated into existing or new motion control systems.



Flange Mount (Standard)



2.5" Servo Mount (Standard)





2.5" Servo Mount 2.62" Servo Mount

### **Solid Construction**

The bearing hub, pilot, and mounting flange are machined from a single piece of metal, yielding an extremely strong and stable unit.

### **Heavy Duty Bearings**

Shaft loads are handled by a pair of heavy duty bearings, which are mechanically locked in place and have double the load capacity of the previous design.

### **Multiple Output Types**

Compatible with common motion control signal requirements, the 725 is available with six different output types: Open Collector, Push-Pull, Line Driver, Pull-Up Resistor. A 5V fixed output option is available with Line Driver or Push-Pull.

### Wide Range of Disc Resolution

From coarse positioning to high speed precision feedback, the Model 725 can meet the demands of many industrial applications. Resolution available from 1 to 30.000 CPR.

### **Versatile Connectivity**

With a variety of options, the Model 725 accommodates industry standard connectors.



6-pin MS Style



5-pin M12



7-pin MS Style



8-pin M12



10-pin MS Style



Cable Gland



9-pin D-Sub

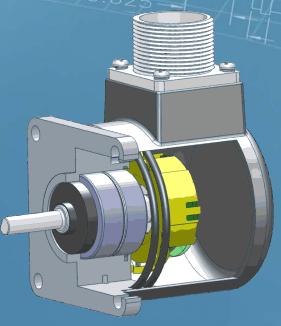
## Rugged Design for Reliable Performance

#### **All Metal Construction**

- Bearing hub, pilot, and mounting flange constructed from a single piece of metal
- · Enhanced stability and strength

#### **Dual O-Rings**

- Positioned between the bearing hub and external case
- Enhanced ingress protection, contributing to IP67 rating



### **Industrial Housing**

- Encoder-within-an-encoder design
- Isolates electronics from external hazards
- Additional set of bearings

### **Heavy Duty Bearings**

- Dual bearings, mechanically locked in place
- Load capacity 80 lbs radial, 80 lbs axial
- ABEC rated

#### **Internal Flex Mount**

- Provides added stability to internal electronics
- Absorbs residual shock and vibration
- Mechanically isolates internal electronics from external conditions

### Opto-ASIC Sensing and Signal Processing Technology

- "Board-on-a-chip" design reduces the number and size of components
- Stable over a wide temperature range (-40° C to 105° C)
- Reduced susceptibility to shock and vibration
- Phased-array sensor provides for a clean reliable signal
- Wide sensor-to-disk air gap

### **Additional Options**

### **Industrial Housing Option**

The Model 7251 (shown above) enhances the ruggedness of the 725N by means of an encoder-within-an-encoder design. An internal flex mount and second set of bearings enable reliable operation in harsh conditions.

### 5PY Mounting Adapter

The optional 5PY adapter (shown at left) is made of all aluminum construction and allows the Model 725 to replace DC tachometer technology.

The 5PY adapter is mechanically interchangeable with any 5PY tach

Model 725 with 5PY adapter.

generator.

#### **Need a Multi-turn Absolute Encoder?**

The rugged, industrial design of the Model 725 extends to Model MA63S

- Standard Size 25 package
- · Durable magnetic technology
- Servo and flange mounting
- SSI and CANopen communications
- IP67 available



Model MA63 absolute encoder.

# **Model 725 Product Specifications**

Pull-Up- 100 mA max per channel Push-Pull- 20 mA max per channel Line Driver- 20 mA max per channel (Meets RS 422 at 5 VDC supply) Index
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