ESE SERIES

Optical Incremental Shaft Position Encoder

FEATURES

- Quadrature Output
- High Noise Immunity
- Short Circuit Protection
- Reverse Polarity Protection
- Input Voltage Range 12-28 VDC
- Sealed Connector
- Gold Plated Connector Contacts
- Double Ended 3/8" S/S Shaft
- Infrared LED and SMD Circuitry
- Heavy Duty Chrome Steel Bearings
- Low Power Consumption

APPLICATIONS

- Speed Controls
- Robotics
- Machine Tools
- Cut to Length
- Position Control
- Index Tables



SPECIFICATIONS

Input

Voltage: 12-28 VDC

Current: 35 ma. @ 15 VDC typical

Output

Squarewave 50/50 duty cycle 0 - 10,000 pulses/sec.

Mechanical

Housing: Rugged anodized aluminum.

Shaft Rotation: Either direction Shaft speed: 6000 RPM max. * Bearings: Heavy duty chrome steel Load: 30 lbs. radial * 10 lbs. Axial *

DESCRIPTION

The ESE Series optical shaft encoder represents a major price - performance breakthrough. It utilizes IRED light sources and precision mechanical components to provide long life and durability. Its quadrature output can be used to derive RPM, feet per minute and angular position. When used with simple controls, material can be cut to length and over and under speed conditions detected. The ESE package with its easy mounting and sealed connector is designed to meet the demands of

industry and its price, the goals of the OEM. Over four decades of engineering and manufacturing experience is embodied in every "ESE". FSI is committed to manufacturing quality products and providing complete customer satisfaction!



^{*} Please consult factory for details and technical bulletins.

ORDERING INFORMATION FOR RSE SERIES ENCODERS Example E S E - 2 1 2 1 - 0 0 6 0 - Q F K C Indicoder Option Operating Voltage Shaft Type Shaft Diameter Electrical Output ORDERING INFORMATION FOR RSE SERIES ENCODERS Example Pulses per revolution, Operating Voltage Shaft Type Output Type

Family

ES "ESE" Family (ESE & ESI Prefix)

Indicoder Option

E Without Indicoder option
I With Indicoder option

Operating Voltage

1 5 VDC 2 12 - 28 VDC 8 5 - 28 VDC

Shaft Type

Single ended
 Double ended

Shaft Diameter

1 1/4" 2 3/8" 3 5/16"

Electrical Output

1 Standard (NPN with pull up resistor)

2 Open Collector NPN

Red Lion pin-out, standard NPN,4 conductor
 Red Lion pin-out, open collector NPN, 4 cond.

Output Type

S Single Channel Q Quadrature

Mounting Type

F Base flange: w/blind holes front, back & bottom

H Blind holes: front, back & bottom

B-4 Series 25 Encoder Mount ⊕ (requires 3/8" shaft)

⊕Note: Used in conjunction with F or H option.

Bearing Type (Chrome Steel)

V or None Precision ABEC 3, film seal, oil lube

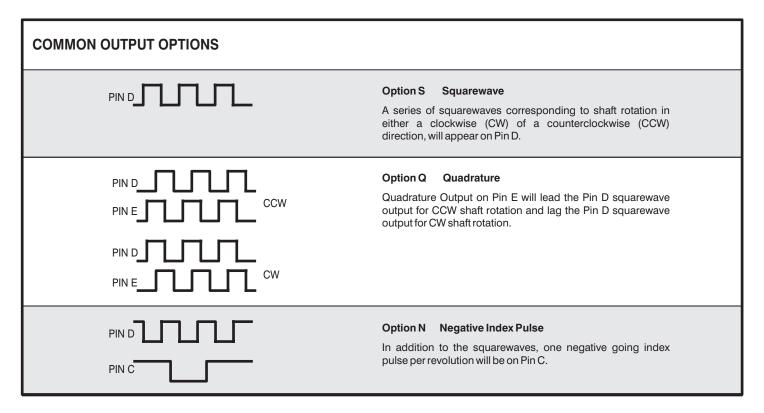
Connection Style

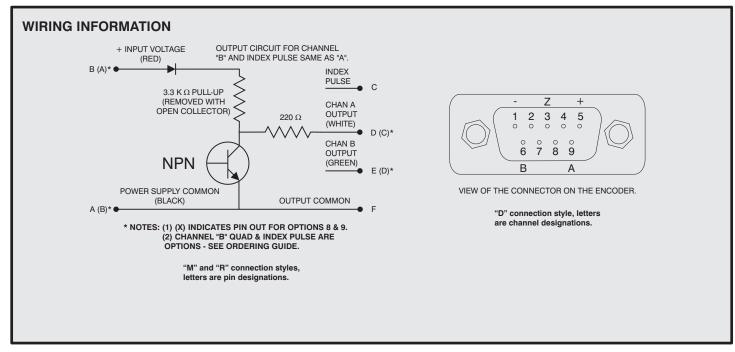
C Water tight plastic connector "C-2" Style

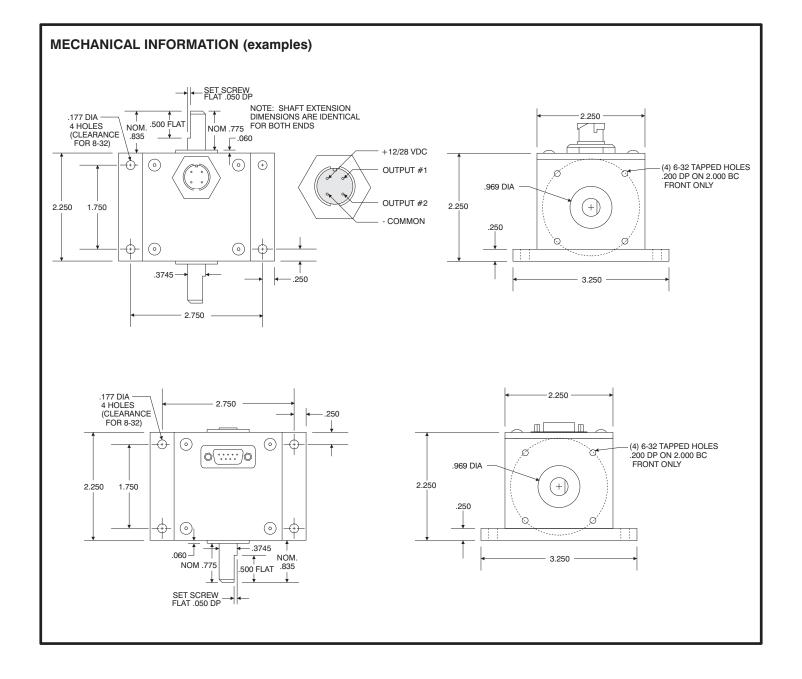
D FSI DB-9 Style Connector

M Military Style Connector MS Series R-3 3' Built-in Cable, No Connector R-15 15' Built-in Cable, No Connector

Certain options and choices may be incompatible or affect specification.







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