HDE SERIES Optical Incremental Shaft Position Encoder

Made in U.S.A.

FEATURES

- NEMA 4 Housing
- Two Independent Shaft Seals
- High Noise Immunity
- Short Circuit Protection
- Reverse Polarity Protection
- Heavy Duty Sealed Bearings
- Variety of Mounting Options
- Tachometer Mount 5PY Available
- Size 25 Flange Available
- Infrared LED and SMD Circuitry
- NPN, PNP, Diff. Line Driver and
- Other Outputs Available

APPLICATIONS

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

SPECIFICATIONS

Input

Voltage: 5 or 12-28 VDC, others available Current: 45 ma. @ 15 VDC typical

Output

Squarewave 50/50 duty cycle 0 - 20,000 pulses/sec.

* Please consult FSI for details, technical bulletins, and see the safety and warranty sheet for additional information.



Shown with "F" Mounting Option

Mechanical

Housing: Rugged anodized aluminum Shaft Rotation: Either direction Shaft speed: 6000 RPM max. * Bearings: Heavy duty ABEC 3 Bearing Load: 30 lbs. radial, 10 lbs. axial *

Temperature Range:

Standard: 32° - 149° F (0° - 65° C) Optional: -31° - 167° F (-35°C - 75°C)

DESCRIPTION

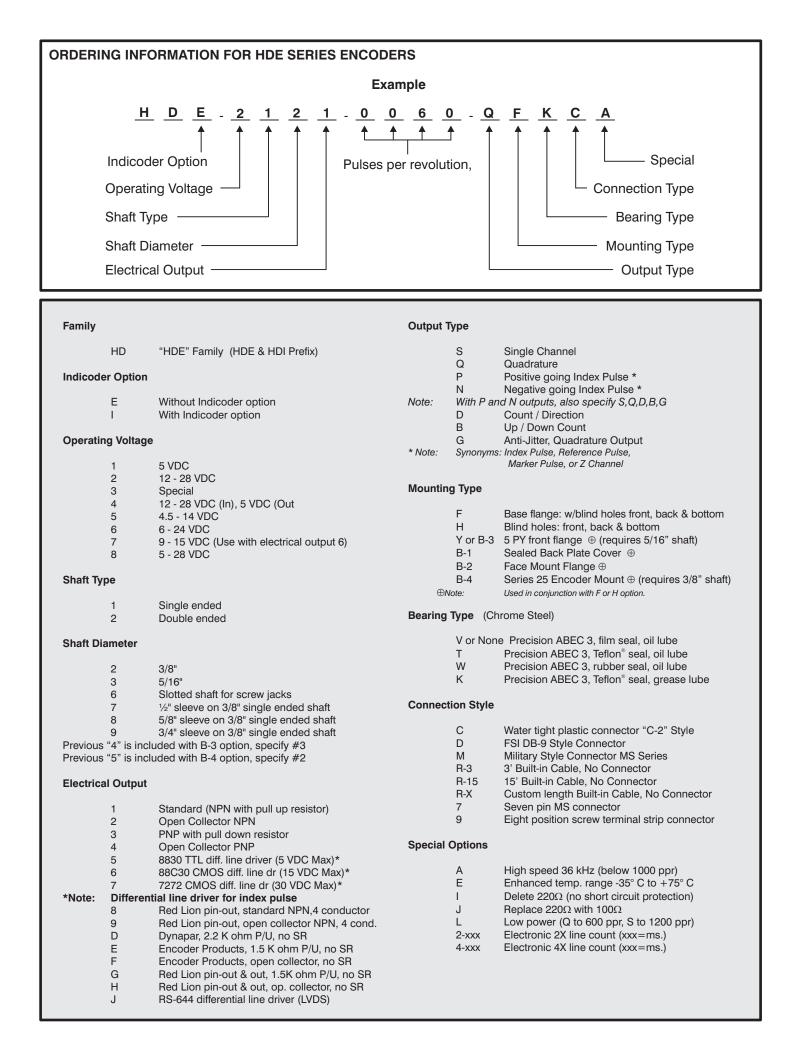
The HDE series is a NEMA 4 optical incremental shaft encoder, offering the ultimate in quality and flexibility. It is designed with high precision mechanical components, dual oil tight shaft seals and IRED light sources to provide long life and durability. Comparison of the light signal with a reference signal provides high noise immunity and a wide operating temperature range. The output is a series of square waves, which correspond to shaft rotation. Single channel, quadrature, index pulse, differential line driver, antijitter, RS-644 and other special outputs are available with standard resolutions up to 2500 PPR. In addition to face flange, foot flange, size 25 flange and 5PY mounts, several bearing and connector options are available. The HDE's extensive options and choices combine to offer millions of standard HDE encoders. In addition, FSI has the flexibility to design and manufacture custom encoders.

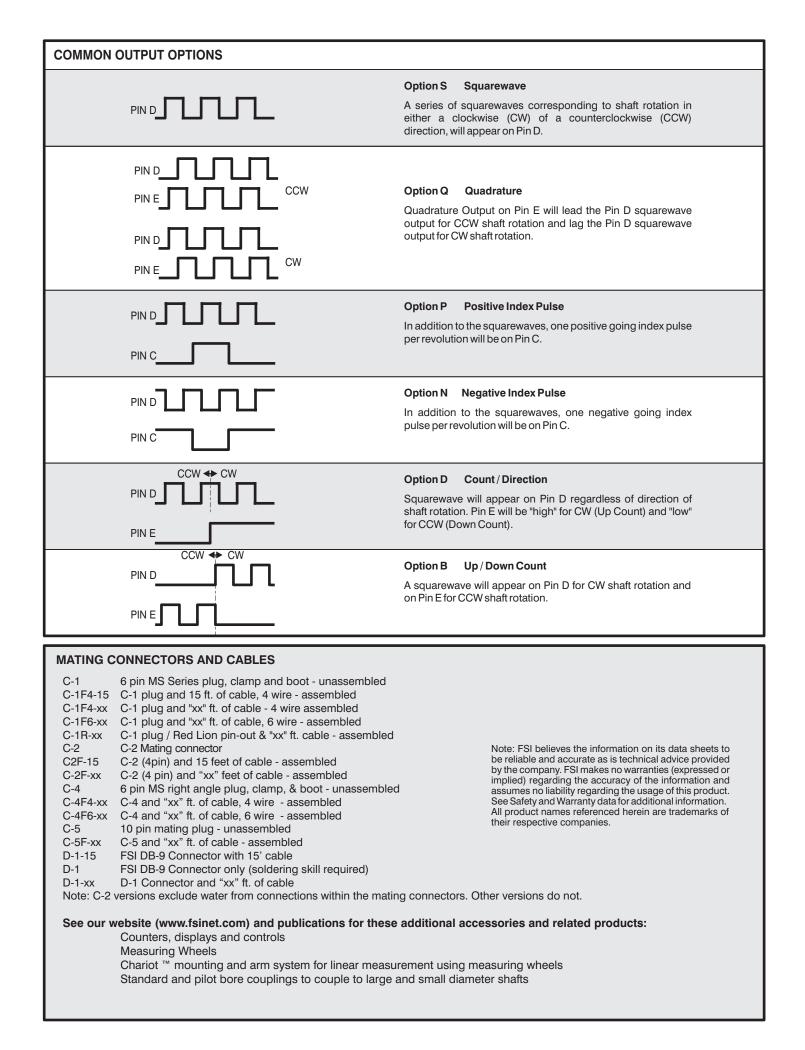
Over 50 years of engineering experience is embodied in every RSE encoder. FSI, formerly known as Fork Standards, Inc., is committed to manufacturing quality products and providing complete customer satisfaction.

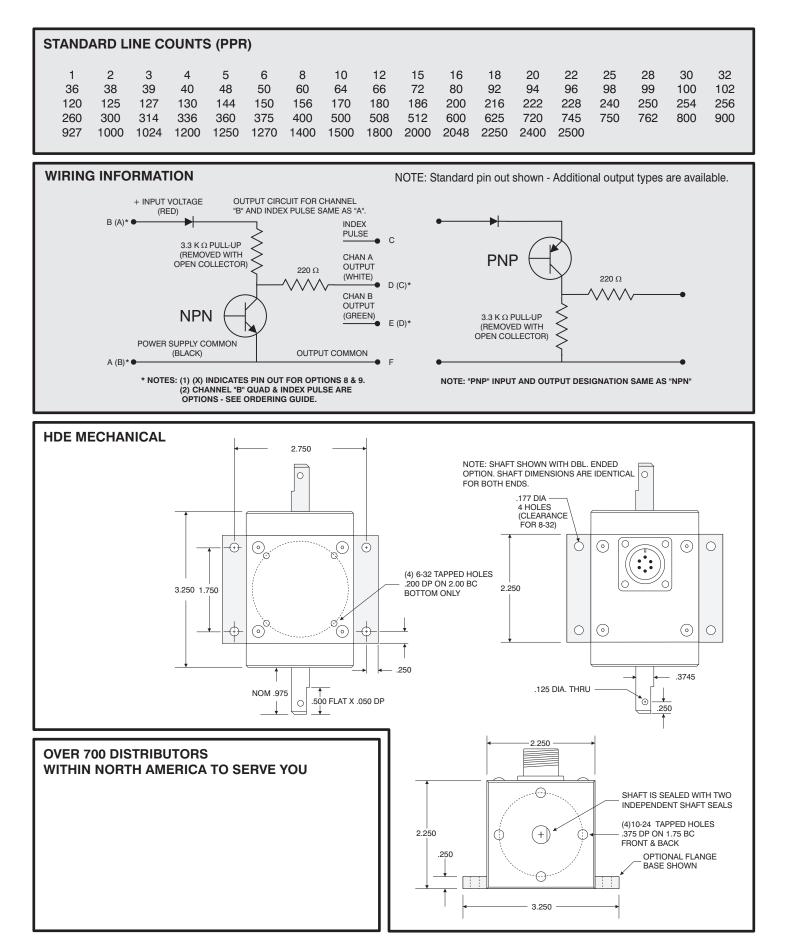


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