

# ***Encoder Technology***

## **Press Release**

**For Immediate Release**

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## **Encoder Technology Offers an Optical Encoder Designed Specifically For Heavy Rail Transit Applications**

Designers of Heavy Rail Propulsion Equipment and Systems have very demanding requirements for speed sensing. For years, designers have been offered the choice of Optical Encoders or Magnetic Sensors originally designed for other applications with an attempt to adapt them to Heavy Rail. For various reasons the use of these speed sensors have generally proven to have resulted in lower reliability, and thus higher total system cost, than desired.

Encoder Technology's transit proven HS46 Series Encoders are designed specifically to operate reliably in difficult applications that include high shock and vibration, wide temperature extremes, and operating environments that contain dust, mud, vapors, and liquids.

ET's HS46 series Optical Encoder is designed to mount directly onto the back of traction motors that drive heavy rail vehicles. These Encoders have proven very reliable and offer a low cost of ownership or high ROI by minimizing down time while appreciably extending mid-life overhaul.

This series of encoders is now available with mounting options including shaft mount or body-mount with flex-shaft coupling. Custom designs to minimize installation issues and to maximize reliability in specific applications are available.

Typically the encoder requirements include a resolution of 1024 cycles per revolution or higher, with a diameter of about 4.6" and a height of 2.4" maximum. The housing material is frequently hard anodized aluminum, but other materials such as stainless steel can be provided to satisfy specific requirements.

Headquartered in Cottonwood Arizona, Encoder Technology designs, produces and markets standard and custom Optical Encoders for use in Oil Exploration, Petroleum Processing, Heavy Rail, Wind Power, Food Processing, Factory Automation, and other extreme duty and volatile applications including Marine, ATEX, and Intrinsically Safe requirements. Visit Encoder Technology on the Web at [www.encodertech.com](http://www.encodertech.com).



## ***EXTREME DUTY***

### **#1 HEAVY RAIL ENCODER IN THE WORLD!**

- Sealed against Oils, Grease, Liquids, Vapors, and Mud
- -40°C to +100° C Reliable Operation
- Advanced ASIC Technology and Optics
- Reliable Operation in High Shock and Vibration Environments
- Customized Designs Available
- Service Proven
- High Resolution Electronics
- Electrical Isolation from Motor
- Will Provide Customized Cable Insulation/Wire Harness

**Encodertech® enhances your profitability, reliability and performance**

- *Improved ROI*
- *No Maintenance Required*
- *Ultra High Reliability*
- *Easy Installation*
- *Reduced Downtime*
- *Fewer Spares in Inventory*

### **Encoder Technology**

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## THE PREFERRED SPEED SENSING SOLUTION IN SCHEDULE DEPENDENT APPLICATIONS



### For Installation to the Traction Motor

#### ***Tools Required:***

- Wrench, Hex – 1/4in, 5/32in & 3/16in
- Hex Torque Wrench ( $\geq$  75 in/lb capability)
- Dial Indicator
- Loctite 242

#### ***Materials / Parts:***

- Encoder HS03002-1024
- Mounting Hardware
  - 6 ea. Screw, PN100054-22
  - 6 ea. Lock Washer, PN 100128-20
  - 1 ea. Screw PN100054-44
  - 1 ea. o'ring, PN100016-8

#### ***Reference Documents:***

Outline Specification Drawing No. HS03002-1024

**COUPLE DEPENDABILITY/PERFORMANCE WITH EASE OF  
INSTALLATION - USE ENCODERTECH<sup>®</sup> OPTICAL ENCODERS**

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