The DR011 is the smart direct replacement choice for the BEI EX152 encoder commonly used on postal sorting equipment, baggage systems, and packaging/conveying equipment. This exact replacement has the added benefit of an attached cable, saving a technician time by not having to solder wires to a circuit board. Improved sealing means a longer life with increased protection.

If you need to replace a BEI EX152, save yourself both time and money and order the DR011.

**DR011 Price: $310**
Additional discounts available for volume orders.

**Features:**
- High precision 1.50" incremental encoder
- Stainless steel 1/4" OD shaft
- Quadrature A & B channels
- 1000 CPR
- Push-Pull output
- Servo mount encoder with 4-40 x .30" deep mounting holes on a 1.100" bolt circle
- 18" cable with strain relief
- IP50 sealing
- Shaft speeds up to 7,500 RPM

**The Accu-Coder™ Advantage**
- ✓ Get this encoder FAST — you’ll get your encoders in days, not weeks.
- ✓ Huge savings in price comparison — the DR011 is your economical solution
- ✓ The accuracy, reliability, and quality that only come from an Accu-Coder™
- ✓ Industry Best 3-year warranty!
# Model DR011 Specifications

## Electrical
- **Input Voltage**: 4.75 to 28 VDC max for temperatures up to 70º C
- **Input Current**: 100 mA max with no output load
- **Input Ripple**: 100 mV peak-to-peak at 0 to 100 kHz
- **Output Format**: Incremental – Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the encoder mounting face. See Waveform Diagrams below.
- **Output Type**: Push-Pull – 20 mA max per channel
- **Freq Response**: 100 kHz
- **Noise Immunity**: Tested to BS EN61000-4-2; IEC801-3; BS EN61000-4-4, 50204; BS EN50081-2; BS EN50081-3
- **Symmetry**: 180º (±18º) electrical at 100 kHz output
- **Quad Phasing**: 90º (±22.5º) electrical at 100 kHz output
- **Accuracy**: 0.017º mechanical (1.0 arc minutes) from one cycle to any other cycle.
- **Max Speed**: 7500 RPM. Higher shaft speeds may be achievable, contact Customer Service.
- **Radial Shaft Load**: 5 lb
- **Axial Shaft Load**: 3 lb
- **Starting Torque**: 0.14 oz-in typical
- **Moment of Inertia**: 2.8 x 10^-4 oz-in-sec^2
- **Max Acceleration**: 1 x 10^5 rad/sec^2
- **Electrical Conn**: 18” cable (foil and braid shield, 24 AWG conductors)
- **Housing**: Black non-corrosive finish
- **Bearings**: Precision ABEC ball bearings
- **Mounting**: 1.3115” Servo Mounting face; see dimensions
- **Weight**: 3.10 oz typical

## Mechanical
- **Shaft Size**: 0.250” outside diameter
- **Shaft Rotation**: Bi-directional
- **Radial Shaft Load**: 5 lb
- **Axial Shaft Load**: 3 lb
- **Starting Torque**: 0.14 oz-in typical
- **Moment of Inertia**: 2.8 x 10^-4 oz-in-sec^2
- **Max Acceleration**: 1 x 10^5 rad/sec^2
- **Electrical Conn**: 18” cable (foil and braid shield, 24 AWG conductors)
- **Housing**: Black non-corrosive finish
- **Bearings**: Precision ABEC ball bearings
- **Mounting**: 1.3115” Servo Mounting face; see dimensions
- **Weight**: 3.10 oz typical

## Environmental
- **Operating Temp**: 0º to 70º C
- **Storage Temp**: -25º to 85º C
- **Humidity**: 98% RH non-condensing
- **Vibration**: 10 g @ 58 to 500 Hz
- **Shock**: 50 g @ 11 ms duration

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### Don’t see the exact encoder you need replaced?
Call **1-800-366-5412** and our Technical Services Department will cross-reference the encoder to the correct EPC model.