SHAFT SPEED ENCODER

A non-contacting rotary to digital converter used to provide accurate shaft speed information.

Designed for a wide range of OEM applications where simplicity, ease of installation and reliability are of prime consideration.

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### SHAFT SPEED ENCODER

#### KEY FEATURES
- High resolution suited for slow-speed applications
- Heavy-duty shaft / sealed bearing with external lip seal
- Rugged, corrosion-resistant construction
- Proven, non-contact sensing technology
- Sealed Electronics
- RoHS compliant (lead-free)

#### OPERATING SPECS
- Pulses per revolution: 1024
- Accuracy: ±0.5 ° (4096 cpr)
- Hysteresis: ±0.18 ° (4096 cpr)

#### ELECTRICAL SPECS
- Supply Voltage: 10-18Vdc
- Current Draw: 20 mA at 12V
- Output: Push-Pull, V. supply, 470R.
- Termination: Deutsch DT06-3S, 3-way Plug/Sockets,
  Pin A: Signal
  Pin B: Ground
  Pin C: +12Vss
- Cable: 0.5M, NW 8.5 conduit all-weather TPE (ETIM 5.0 Class-ID: EC000104)

#### MECHANICAL SPECS
- Materials:
  - Front Housing: PA6 GF50, Black
  - Rear Housing: PA66 GF40, Black
  - Shaft and fixings: A2 Stainless Steel
  - Retainer Strap: PA6 2mm, Black
- Shaft coupling: Base shaft ½” dia bore (12.7mm) with M6 grub screw
  Adaptor shafts: M8 x 1.25mm thread x 14mm long, 17mm A/F Spanner Flats, or 3/8” dia with flat for locking screw
- Sealing: Electronics: IP68, Housing: IP65
- Dimensions: 93mm Dia x 70mm depth (excluding thread)

### ENVIRONMENTAL SPECS
- Temperature:
  - Operating: -20° to +70°C
  - Storage: -40°C to +85°C
- Humidity:
  - Operating: 80% non-condensing (IEC61010-1)
  - Storage: 95% non-condensing (IEC61010-1)
- Acceleration:
  - Operating: 500 m/s², BS EN 60068-2-7: 1993
  - IEC 68-2-7: 1983
- Shock:
  - Non-operating: 1000 m/s², 6ms, ½ sine BS EN 60068-2-27: 1993 (IEC 68-2-27: 1987)
- Vibration:
  - Operating: 100 m/s², max @ 55 to 2000Hz, BS EN 60068-2-6: 1996 (IEC 68-2-6: 1996)
- EMV Compliance: BS EN 61326