The CD1140 family of torque sensors offers a rugged but small package size as well as many mounting configurations so as to provide excellent measurements in both industrial and laboratory environments.

Sensor Type: **Contactless Torque Sensors**

Force Direction: **Clockwise, Counterclockwise**

Full Scale Range: **.015 - 16000 lbf**

Rotation Speed: **4000 - 20000 RPM**

**The contactless transmission of supply voltage and measuring signal facilitates continuous operation with low wear and no slip ring service.**

The CD1140 is also available with optional speed or angle detection (but not both). With many years of experience as a designer and manufacturer of sensors, TE Connectivity (TE) (formerly Measurement Specialties) often works with customers to design or customize sensors for specific uses and testing environments. To meet your needs we also offer complete turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.

**BENEFITS**

- Contactless transmission
- Keyed Shaft couplings
- Range from ±0.02 to ±20,000 Nm (±0.015 to ±16,000 lbf.ft)
- Stainless Steel or Aluminum
- Built In Amplifier
- High Accuracy
- Low Moment of Inertia
- Small Outline
- Speed and Angle Detection (Option)

**Features**

**Product Type Features**

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**Electrical Characteristics**

| Full Scale Range (Nm)   | .02 - 20000                  |
### CONTACTLESS TORQUE SENSOR W/ +/-10V O/P

**TE Model #: CD1140**

**TE Internal #:** CAT-TOR0004

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#### Signal Characteristics

| Output Signal                        | ±10 V                |

#### Usage Conditions

| Operating Temperature Range (°C)     | 0 - 60               |
| Operating Temperature Range (°F)     | 32 - 140             |

#### Operation/Application

| Rotation Speed (RPM)                 | 4000 - 20000         |

#### Other

| Force Direction                     | Clockwise, Counterclockwise |
| Accuracy (% of FS)                  | ±.1                      |

### Related Materials

**Data Sheet**

- **CD1140_en**
  - English

**Specification Or Standard**

- **INSTRUCTIONS FOR THE USE OF STRAIN-GAUGE SENSORS (FRENCH)**
  - French

- **INSTRUCTIONS FOR THE USE OF STRAIN-GAUGE SENSORS**
  - English

**CD1140_fr**

- PDF
- French