

# CD1124T Contactless Torque Sensor



- Dynamic torque measurements
- Test rig and on-road testing
- Telemetry based transmission
- Low-profile - 35 mm axial length
- Power supply to sensor via telemetry
- Remote shunt calibration function

## DESCRIPTION

The CD1124T is a telemetry based torque transducer measuring dynamic torque between the gearbox and engine shaft of heavy-duty vehicles. Through the wireless signal transmission and power supply the CD1124T is extremely easy to mount and use, especially while measuring rotating shafts. It is suitable for both dynamometer-based testing and road trials. With its rugged construction and highly integrated micro electronics, the CD1124-3T meets the most demanding circumstances.

With many years of experience as a designer and manufacturer of sensors, Measurement Specialties, Inc. 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.

## FEATURES

- High Accuracy
- Built-in with telemetry system
- High speed rotation
- High temperature range

## APPLICATIONS

- On-board equipments
- Test benches and research
- Test and Measurement

## STANDARD RANGE

Standard range of the sensor is 20 000 m.N [16 klbf.ft], other ranges can be adapted on request.

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## PERFORMANCE SPECIFICATIONS

**Ambient Temperature: 20±1° C (unless otherwise specified)**

<b>Parameters</b>	
Operating Temperature Range (OTR)	-20 to 80° C (-4 to 176° F)
Compensated Temperature Range (CTR)	0 to 60° C (32 to 140° F)
Zero Shift in CTR	<0.5% F.S./ 50° C [100° F]
Sensitivity Shift in CTR	<1% of reading / 50° C [100° F]
Range (F.S.)	±20 kNm [±16 klbf.ft]
Rotation speed	25 000 rpm
<b>Over-Range</b>	
Without Damage	1.5 x F.S.
<b>Accuracy</b>	
Combined Non-Linearity & Hysteresis	±1% F.S. (±0.1% telemetry)

### Electrical Characteristics

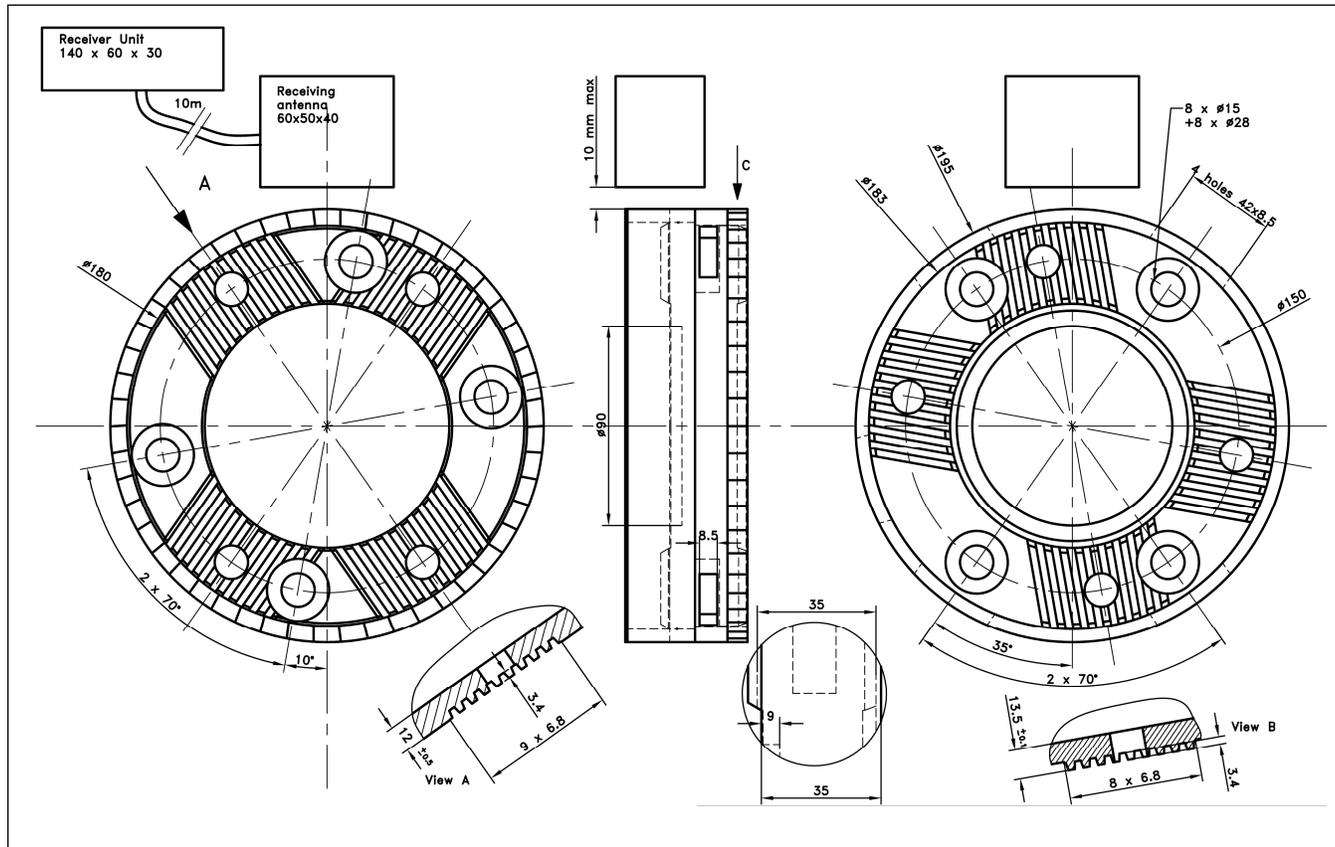
<b>Model</b>	<b>CD1124</b>
Supply Voltage	24Vdc
Signal at F.S	±10V

### Notes

1. Protection index: IP 65
2. Material: Body in stainless steel

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## DIMENSIONS & WIRING SCHEMATIC (IN METRIC)



Dimensions in mm

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