



CD1124T

High Range Touchless Dynamic Torquemeter

SPECIFICATIONS

- Standard range 20 000 kN.m (or 16 klbf.ft)
- Test rig and on-road testing
- Telemetry based transmission
- Power supply to sensor via telemetry

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, TE CONNECTIVITY often works with customers to design or customize sensors for specific uses and testing environments.

This datasheet is released to present generic information on high ranges contactless torquemeters. For any specific application, our R&D department is available to define to the right product with specification and design.

On request, Instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

FEATURES

- Automotive monitoring and benches
- Other ranges on request
- Low-profile - 35 mm axial length
- High temperature range
- High speed rotation

APPLICATIONS

- Low range dynamic applications
- On-board equipments
- Test benches and research
- Test and Measurement

CD1124T

High Ranges Dynamic Contactless Torquemeter

STANDARD RANGES

Range in Nm (FS)	±20 kNm
Range in lbf.ft (FS)	±16 klbf.ft
Rotation in rpm	25 000

PERFORMANCE SPECIFICATIONS (typical values at temperature 23±3°C)

Parameters	
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]
Rotation speed	25 000 rpm
Over-Range	
Without Damage	1.5 x F.S.
Accuracy	
Combined Non-Linearity & Hysteresis	±1% F.S. (±0.1% telemetry)

Electrical Characteristics

Model	CD1124
Supply Voltage	24Vdc
Signal at F.S	±10V

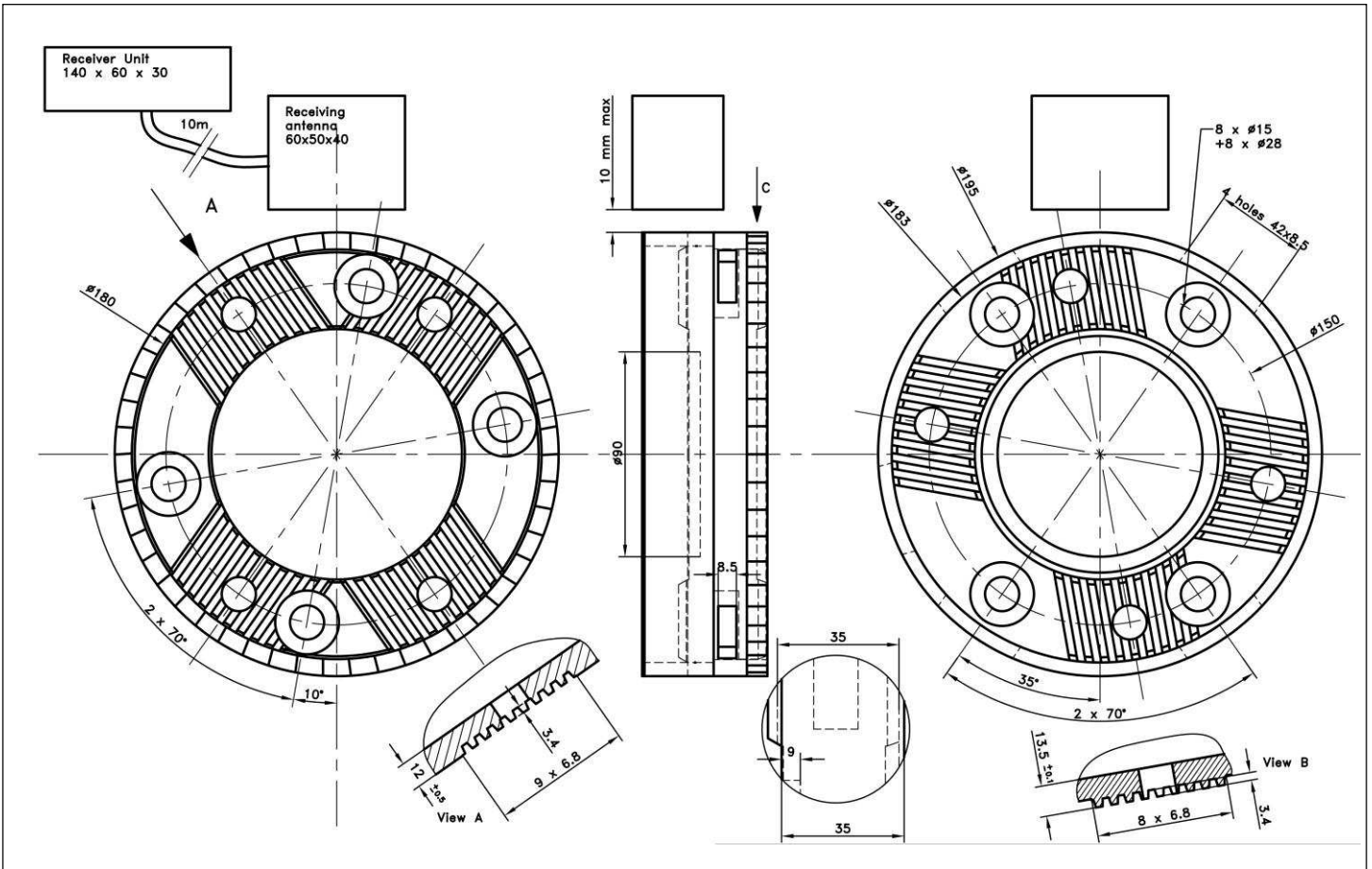
Notes

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

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High Ranges Dynamic Contactless Torquemeter

DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)



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