



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 a long standing 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

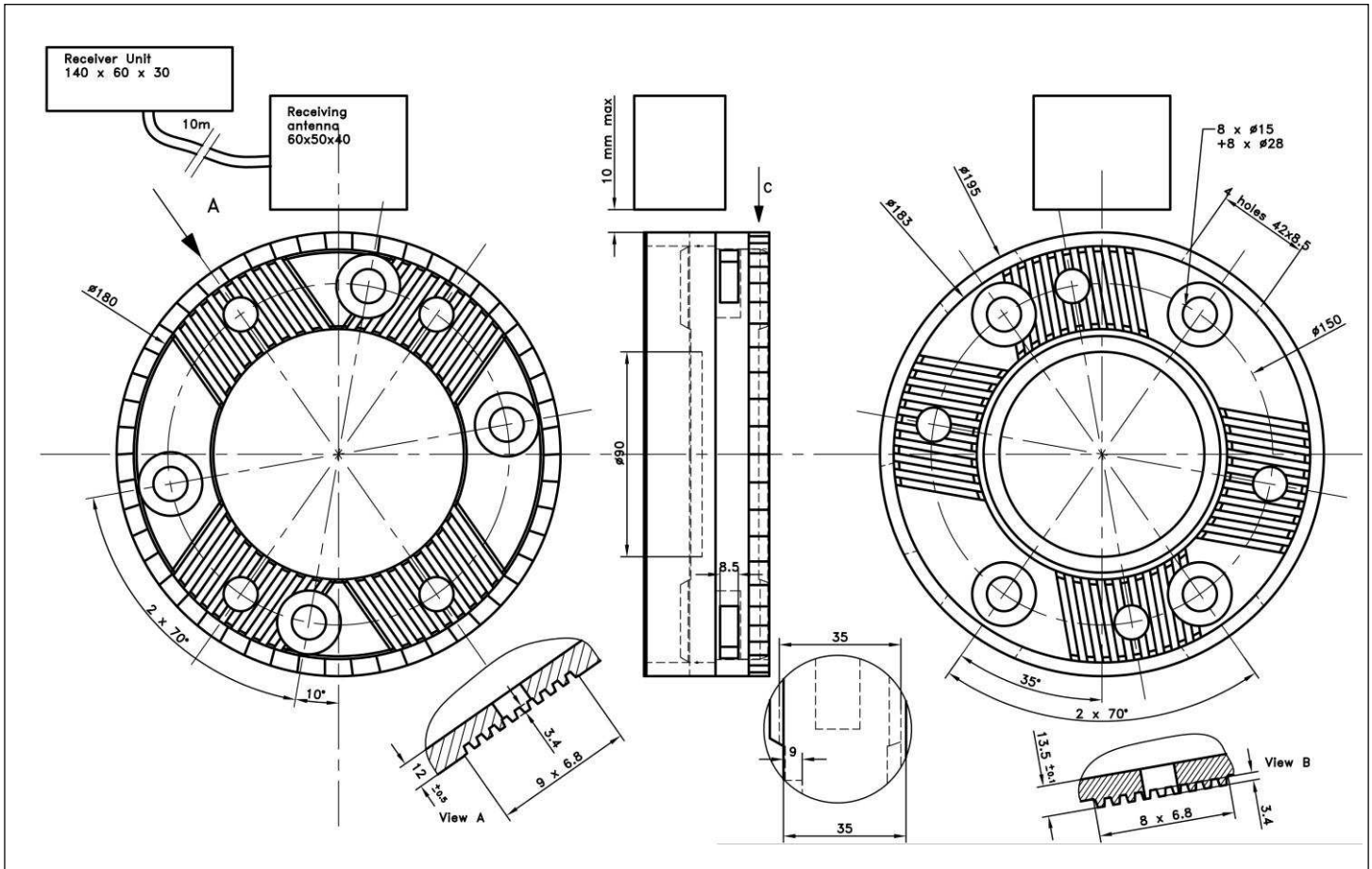
Notes

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

CD1124T

High Ranges Dynamic Contactless Torquemeter

DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)



NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity company
45738 Northport Loop West
Fremont, CA 94538
Tel: +1 800 767 1888
Fax: +1 510 498 1578
customercare.frmt@te.com

EUROPE

MEAS France SAS,
a TE Connectivity company
26 Rue des Dames
78340 Les Clayes-sous-Bois, France
Tel: +33 (0) 130 79 33 00
Fax: +33 (0) 134 81 03 59
customercare.lcsb@te.com

ASIA

Measurement Specialties (China) Ltd.,
a TE Connectivity company
No. 26 Langshan Road
Shenzhen High-Tech Park (North) Nanshan
District, Shenzhen, 518057
China
Tel: +86 755 3330 5088
Fax: +86 755 3330 5099
customercare.shzn@te.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.