

Reaction torque transducer Type DRT3 und DRT4

for static application

Suitable for:

- test of pulsed tools
- torque wrenches
- electric screwdriver

Description:

This transducer was developed for static test of pulsed tools, torque wrenches, electric screwdrivers and so on. In combination with the universal torque meter GMV2 it is possible to detect the first peak of a measurement to prevent falsifying of measurement values by overdrawing of a torque wrench.

Special features:

- insensitive for bending force
- for fixed mounting
- replaceable adapter

According to the tool to be tested, it can be arranged any way you like.

For connect the tools are various adpters available. The shaft of the torque transducer are unsensitive for bending force, because of specially applicated strain gage bridges and additional ball bearings.

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RVICE

Mechanical dimensions:



	a[mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [Inner square DIN3121]	j [mm]	k[mm]	Weight [kg]
DRT 3	270	160	100	Ø105	125	20	62	n	ı" (¾")	34	40	17
DRT 4	248	250	150	Ø178	200	30	130	17,5	2 1⁄2"	40	60	52
[echn	ical D)ata:										
Tuest			(-) otivo					Dormissible			

Technical Data:

Туре:	(a)ctive	(p)assive	Permissible	2		
Measurement DRT3 Range: DRT4	-	2000; 3000 Nm 00; 6000 Nm	Measure- ment Range	Axial (N)	Radial (N)	
Supply Voltage:	12V DC+-10%	12 V max.	(Nm)	S		
Current Consumption:	approx. 20 mA	35 mA max.	500	4070	8150	
Voltage Output:	0- ±5V	2 mV/V	1000	6790	8150	
Nonlinearity:	<0,15 %	<0,15 %	2000	11300	8150	
Hysteresis:	<0,1 %	<0,1%	3000	14310	8150	
Deviation at zero point:	≤ ± 100 mV	\leq ± 0,01 mV/V	4000	17670	27000	
Internal Resistance:		350 Ω nominal	5000	20610	27000	
Compensated Temperatu- re Range:	5-45℃	5-45°C	6000	23370	27000	
Operating Temperature	0-60°C	0-60°C				
Temperature fault		\sim				
Zero Point:	0,02 % / K	0,02 % / K	Hexagonal Connector (only DRT3):			
Sensitivity:	0,01 % / K	0,01 % / K	SW22 to SW55 DIN ISO 272			
Mechanical Overload:	50%	50%	Square Connector:			
Connection:	12 pin Connector	6 pin Connector	3/4" DIN 3121-H			
Protection:	IP 40 DIN 40050	IP 40 DIN 40050				

DRT3 p-1000-SW36 1. Ordering Example:

Torque transducer passiv measuring range 1000 Nm Hexagonal Connector SW 36 DIN ISO 272

DRT3 a-1000-A-SW36 2. Ordering Example:

Torque transducer aktiv measuring range 1000 Nm Hexagonal Connector SW 36 DIN ISO 272

Please ask for connectors not listed above.

To order for supply and display unit type GMV1 without index "A"! Attention:

Connectors, measuring cable, supply and display unit, screwing simulators Available Accessories:

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