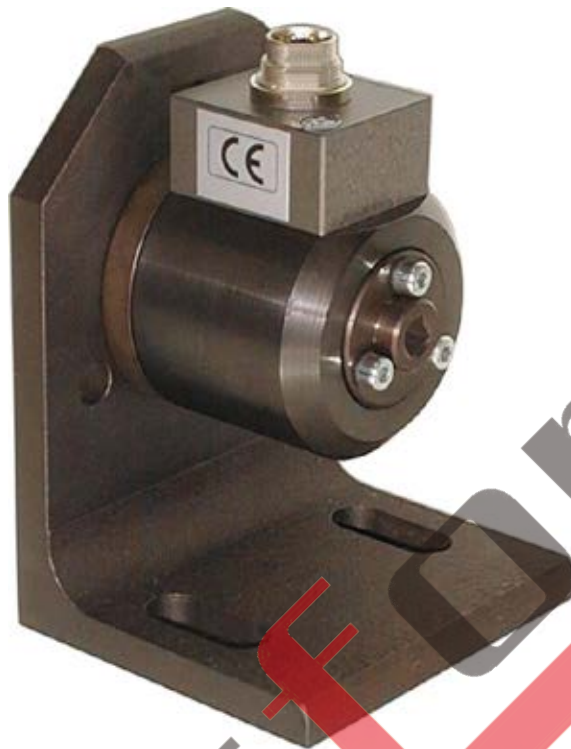


Reaction torque transducer Type DRT_i for static application



Suitable for:

- test of pulsed tools
- torque wrenches
- electric screwdriver

Special features:

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

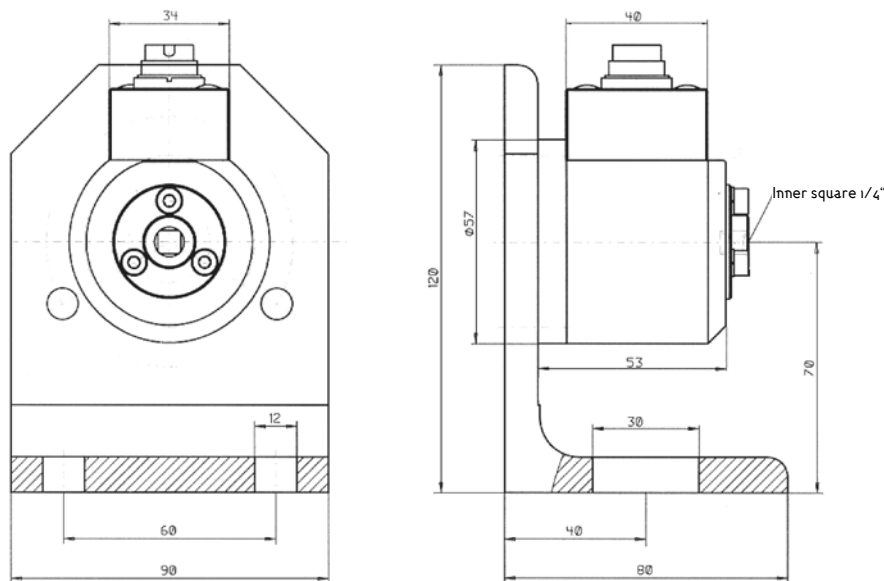
Description:

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.

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.

Mechanical dimensions:



Technical Data:

Type:	(a)ctive	(p)assive	Permissible Load		
Measurement Range:	2; 5; 10; 12; 20Nm	2; 5; 10; 12; 20Nm	Measure- ment Range (Nm)	Axial (N)	Radial (N)
Supply Voltage:	12V DC+/-10%	12 V max.	2	175	290
Current Consumption:	approx. 20 mA	35 mA max.	5	330	290
Voltage Output:	0- ±5V	1 mV/V	10	510	290
Nonlinearity:	<0,1 %	<0,1 %	12	550	290
Hysteresis:	<0,2 %	<0,1 %	20	820	290
Deviation at zero point:	≤ ± 100 mV	≤ ± 0,01 mV/V	Available Connectors: Hexagonal Connector: SW 5,5 bis SW13 DIN ISO 272 Square Connector: 1/4" DIN 3121-H		
Internal Resistance:	---	350 Ω nominal			
Compensated Temperature Range:	5-45°C	5-45°C			
Operating Temperature:	0-60°C	0-60°C			
Temperature fault					
Zero Point:	0,02 % / K	0,02 % / K			
Sensitivity:	0,01 % / K	0,01 % / K			
Mechanical Overload:	100%	100%			
Connection:	12 pin Connector	6 pin Connector			
Protection:	IP 40 DIN 40050	IP 40 DIN 40050			

1. Ordering Example: DRT1 p-10-SW13

Torque transducer measuring range 10 Nm passiv Hexagonal Connector SW13 DIN ISO 272

2. Ordering Example: DRT1 a-10-A-SW13

Torque transducer measuring range 10 Nm aktiv Hexagonal Connector SW13 DIN ISO 272

Please ask for connectors not listed above.

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

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