

Torque Transducer Type DRB-II for static Application



Special features:

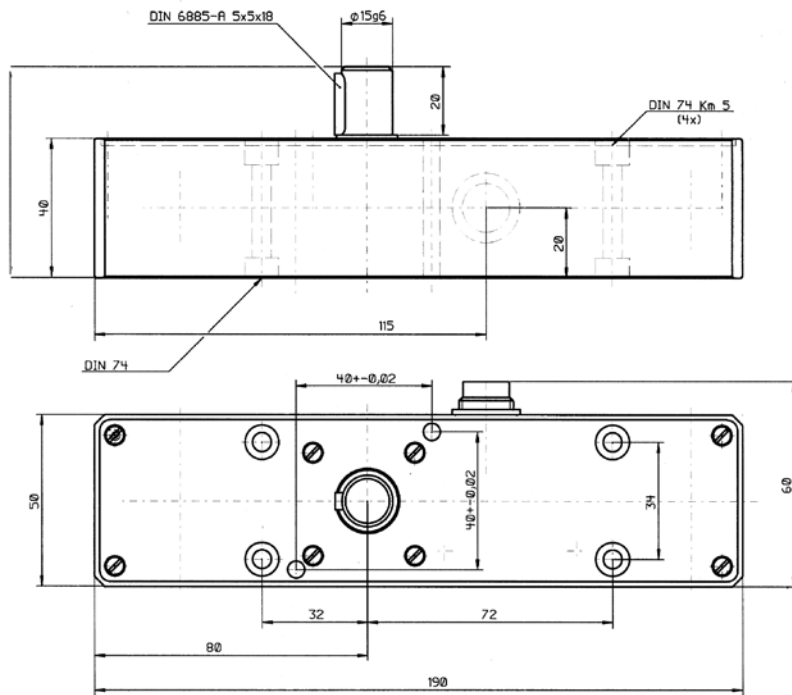
- insensitive for axial and radial force
- extra rugged construction
- optionally built in instrumentation amplifier
- integrated overload protection

Description:

The transducer DRB-II was developed for measurement of non rotating torque without influence of axial and bending force. It is best in applications where high protection against overload is needed.

Because of its construction the transducer is insensitive of axial and bending force.

Mechanical dimensions:



Technical Data:

Type:	(a)ctive	(p)assive
Measurement Range:	5; 10; 20 Nm	5; 10; 20 Nm
Supply Voltage:	12V DC $\pm 10\%$	12 V max. (typical 10 V)
Current Consumption:	approx. 35 mA	35 mA max.
Rise Time 10-90%:	0,5ms (2kHz)	---
Voltage Output:	0- ± 5 V at > 10 k Ω	2 mV/V
Internal Resistance:	---	350 Ω nominal
Nonlinearity:	$< 0,2\%$	$< 0,2\%$
Hysteresis:	$< 0,2\%$	$< 0,2\%$
Deviation at zero point:	$\leq \pm 100$ mV	$\leq \pm 0,02$ mV/V
Compensated Temp. 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:	500%	500%
Weight:	approx. 950 g	approx. 950 g
Connection:	12 pin Connector	6 pin Connector
Protection:	IP 40 conform to DIN 40050	IP 40 conform to DIN 40050

Ordering Example: DRB-II-10-a

Torque transducer measuring range 10 Nm active

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