ETH messtechnik
tel. +49 (0) 79 72 93 10-0
hagstrasse 10 . D-74417 gschwend
sales@eth-messtechnik.de

Datasheet

Torque Transducer

DRB-II

Torque range from 5 to 20 Nm for static application



Features DRB-II

- insensitive by axial and radial forces
- extremely rugged construction
- integral overload protection
- in active and passive version

The DRB-II transducer was developed to measure non-rotating torques that are free of axial and flexural forces.

It is primarily deployed in applications where a high safety factor against overload is needed. The device is not affected by axial and flexural forces.

Ordering Code

DRB-II- ▢▢-▢

- ▢ A ⇨ 12pin-connector (Option only applies a /active!)
- ▢ a ⇨ active
- ▢ p ⇨ passive
- ▢▢ ⇨ Torque range (Nm)
- ▢ Sensor type

Available Accessories

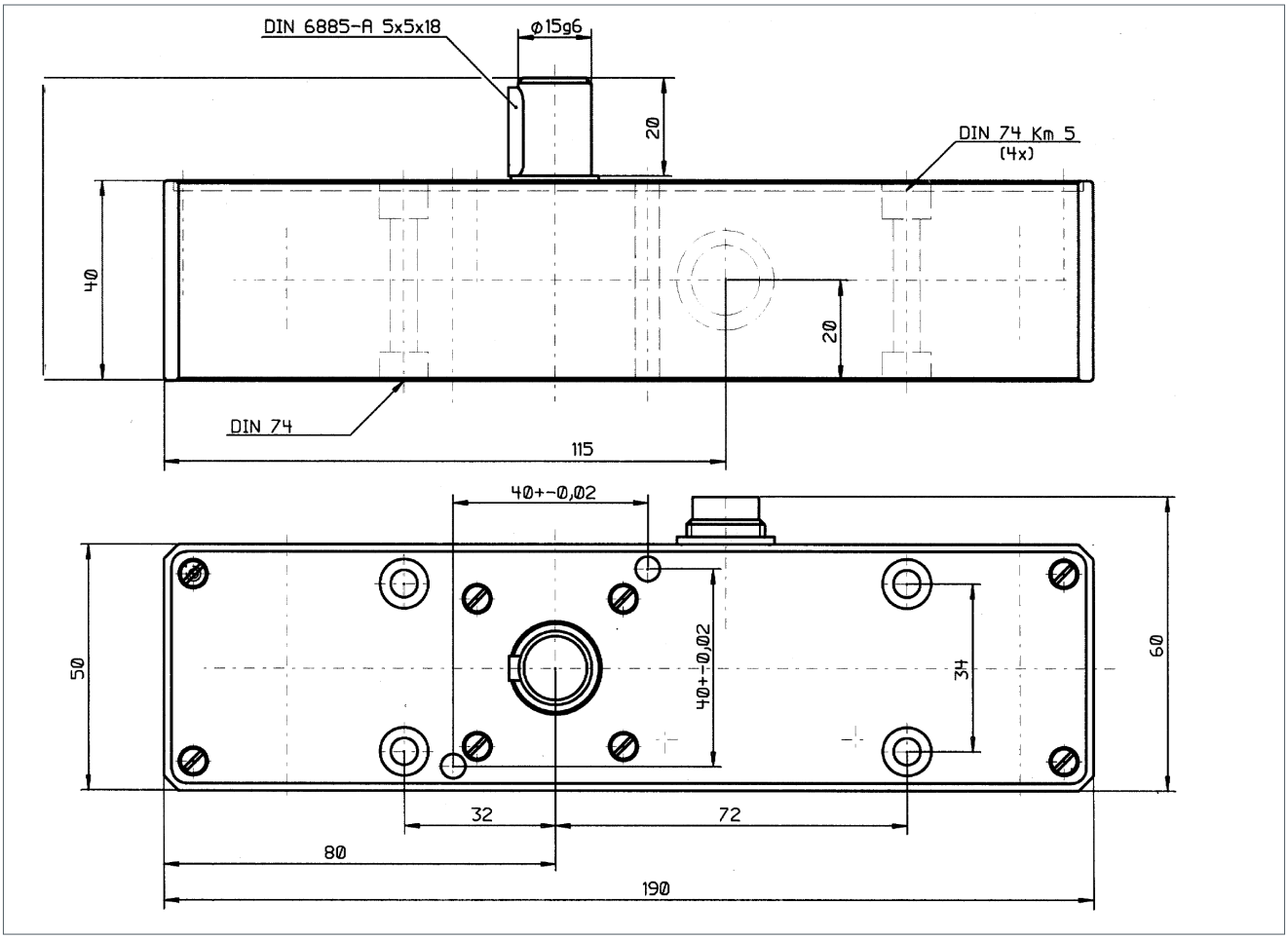
Supply and display unit: GMV2
ValueMasterBase*
ValueView*

Cables

Couplings

* Only for active Model

Mechanical Dimensions DRB-II



Electrical Specifications DRB-II

Model	active	passive
Torque ranges: (Nm)	| 5 | 10| 20 |	| 5 | 10| 20 |
Supply voltage:	12 - 28 V DC	12 V max.
Power consumption:	60 - 100 mA	35 mA max.
Rise time 10 - 90 %	120 µs	--
Limit frequency -3 dB:	3 kHz	--
Voltage output:	0 ± 5 V	2 mV / V
Nonlinearity:	0.2 %	0.2 %
Hysteresis:	0.2 %	0.2 %
Deviation at zero point:	≤ ± 100 mV	≤ ± 0,02 mV / V
Internal resistance:	–	350 Ω nominal
Compensated temperature range:	5 - 45 °C	5 - 45 °C
Operating temperature:	0 - 60 °C	0 - 60 °C
Temperature error Zero point: Sensitivity:	 0.02 % / K 0.01 % / K	 0.02 % / K 0.01 % / K
Mechanical overload:	500 %	500 %
Weight:	approx. 950 g	approx. 950 g
Internal protection:	IP40	IP40
Connection:	6pin-connector	6pin-connector
Calibration: Works certificate with 25% steps cw and ccw. Other calibrations upon request.		