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Datasheet

Torque transducer

DRW-K

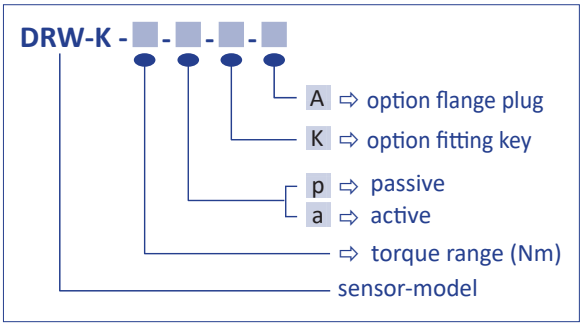
non rotating
active or passive-model
torque ranges 0 - 0,5 Nm to 0 - 20.000 Nm

- fixed cable
- integrated 100%-control
- wide range of applications
- no maintance or wear
- keyway optional

This torque sensor is designed for non-rotating applications.
Both static and dynamic measurements can be taken.

The strain-gauge-based sensor outputs a standardized output signal in mV/V that is proportional to the torque.
Also available as an active device when combined with the „DMSVE“ amplifier unit.

ordering code



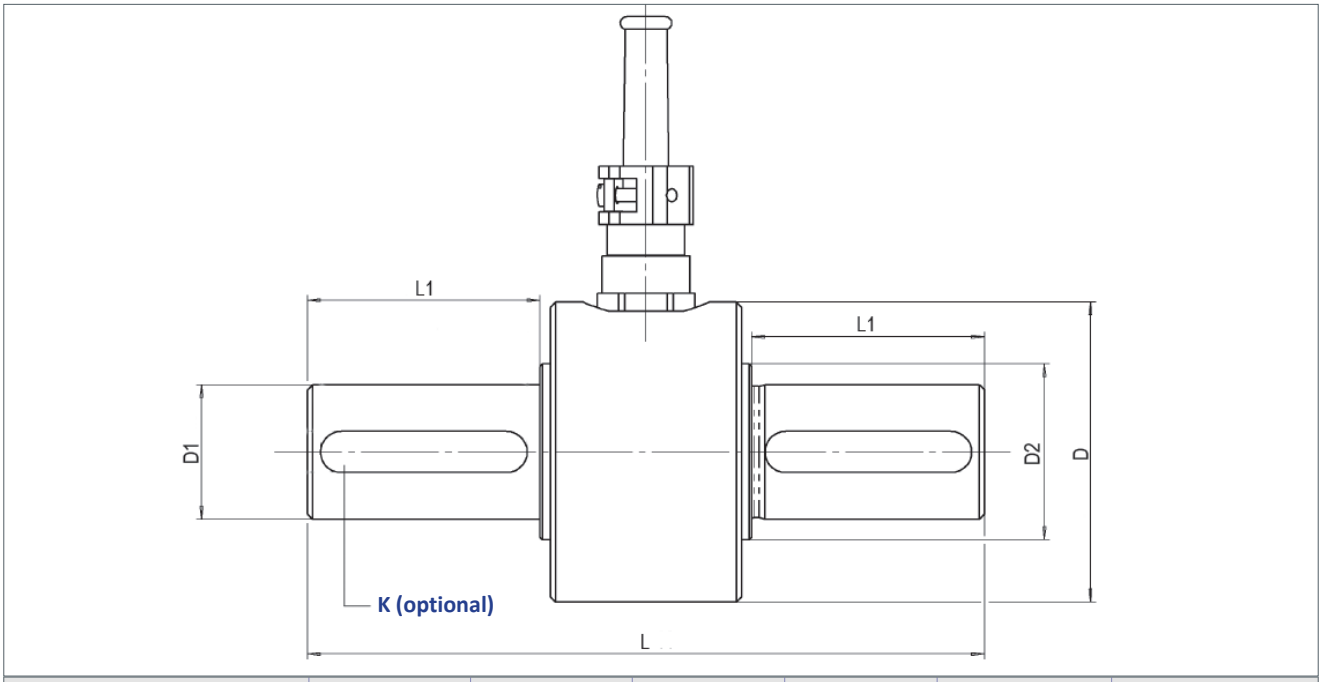
available accessories

supply and display unit: GMV2
ValueMaster$_{base}$*
ValueView*

couplings

* only in version „a“ (active)

Mechanical dimensions DRW-K



torque ranges: (0-...)		L [mm]	L1 [mm]	D [mm]	D1 g6 [mm]	D2-0,1 [mm]	K (DIN 6885)
| 0,5 | 1 |	Nm	47	10	24	8	12	-
| 2 | 5 | 10 |	Nm	58	12	38	12	18	2x A - 4 x 4 x 8
| 15 | 20 |	Nm	74	20	38	12	18	2x A - 4 x 4 x 16
| 50 |	Nm	104	35	50	18	26	2x A - 6 x 6 x 28
| 100 | 200 |	Nm	131	45	58	26	34	2x A - 8 x 7 x 40
| 500 | 1000 |	Nm	168	60	77	45	58	–
| 2 | 3 | 4 | 5 |	kNm	264	110	98	70	–	–
| 10 | 15 | 20 |	kNm	285	115	138	110	–	–

Electrical Data DRW-K

	(a) active	(p) passive
Supply voltage:	12 - 30 V DC	12 V DC ± 10 %
Current consumption:	50 mA max.	35 mA max.
Measurement signal:	± 10 V	1 mV/V (± 0,25 %)
Nonlinearity:	0,1 %	
Hysteresis:	0,1 %	
Devitation at zero point:	≤ 100 mV	≤ ± 0,01 mV/V
Internal resistance:	--	350 Ω nominal
Compensated temperature range:	5 - 45 °C	
Operating temperature:	0 - 60 °C	
Temperature error Zero point: Sensitivity:	 0,02 % /K 0,01 %/K	
Mechanical overload:	100 %	
Internal protection:	IP40	
Connection:	free cable end	
Cable lenght:	2.5 m; amplifier mounted in the housing 50 cm from the end of the cable	2.5 m
Option flange plug:	12pin flange plug	6pin flange plug
Calibration: works certificate with 25% steps in right and left-hand load. (Other calibrations on request!)		