

## Datasheet

### Torque Sensor

# 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 maintenance or wear
- keyway optional



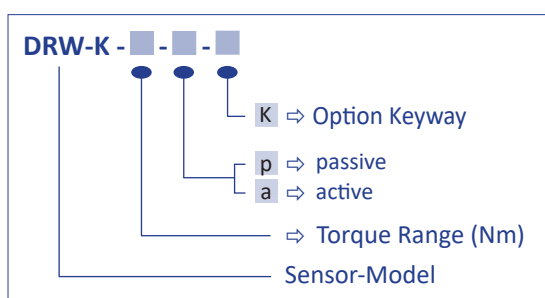
This torque sensor is designed for non-rotating (static) applications.

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.

As these transducers are non-rotating and hence have no moving parts, they require no maintenance and do not wear.

Also available as an active device when combined with the DMSVE amplifier unit.

### Ordering code system



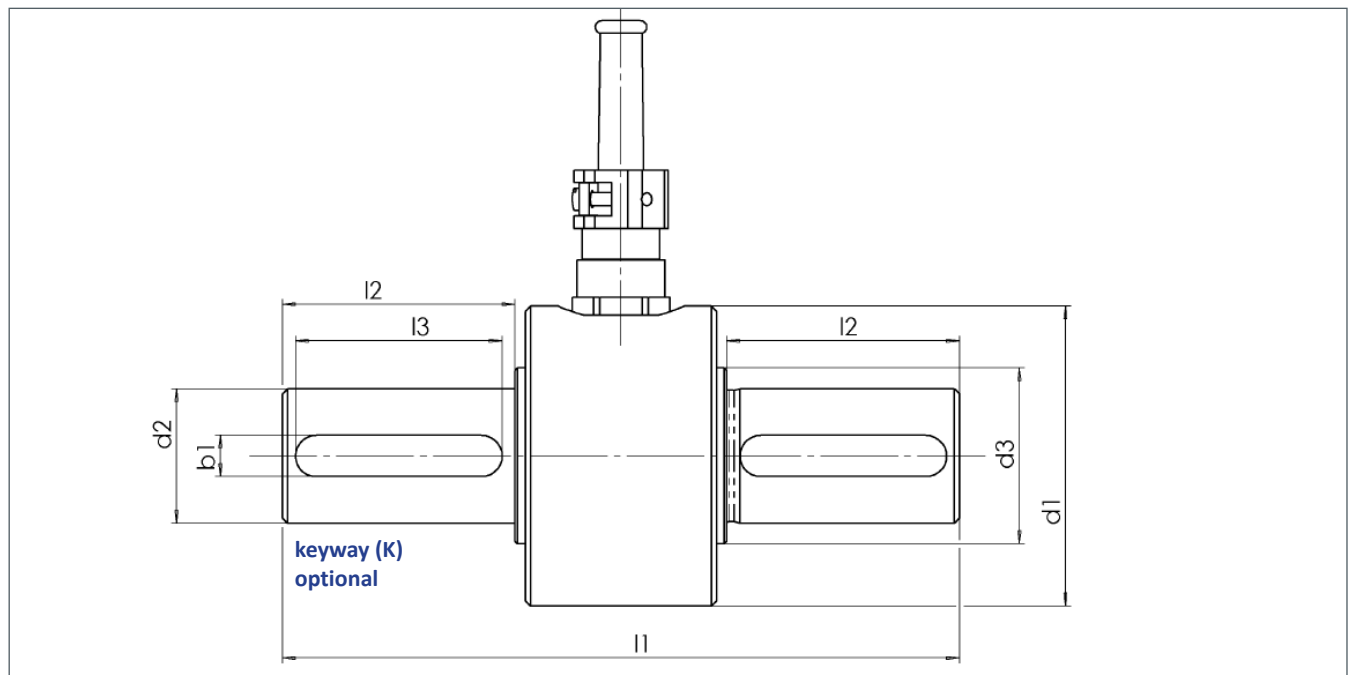
### Available Accessories

Supply and display unit: GMV2  
ValueMaster<sub>base</sub>\*  
ValueView\*

Couplings

\* Only in combination with amplifier „DMSVE“

## Mechanical Dimensions DRW-K



Torque Ranges: (0-... Nm)	l1	l2	l3 (optional)	d1	d2	d3	b1 (optional)	
0,5   1	Nm	47	10	–	24	8	12	–
2   5   10	Nm	58	12	8	38	12	18	4
15   20	Nm	74	20	16	38	12	18	4
50	Nm	104	35	28	50	18	26	6
100   200	Nm	131	45	40	58	26	34	8
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 $\pm$ 10 %
Current consumption:	50 mA max.	35 mA max.
Measurement signal:	$\pm$ 10 V	1 mV / V ( $\pm$ 0,25 %)
Nonlinearity:		0,1 %
Hysteresis:		0,1 %
Deviation at zero point:	$\leq$ 100 mV	$\leq \pm$ 0,01 mV/V
Internal resistance:	--	350 $\Omega$ nominal
Compensated temperature range:		5 - 45 $^{\circ}$ C
Operating temperature:		0 - 60 $^{\circ}$ C
Temperature error		
Zero point:		0,02 % / K
Sensitivity:		0,01 % / K
Mechanical overload:		100 %
Internal protection:		IP40
Connection:		free cable end
Cable length:	2.5 m; amplifier mounted in the housing 50 cm from the end of the cable	2.5 m
Delivery variant connection:	12pin coupling plug	6pin coupling plug
Calibration: works certificate with 25% steps in right and left-hand load. (Other calibrations on request!)		