

## Slipping Type Rotary Torque Transducer

### FEATURES

- High accuracy 0.1% F.S.
- Both shaft ends with keys
- Very short axial length
- High torsional stiffness
- Reliable and durable
- Simple handling and assembly

### TECHNICAL SPECIFICATION

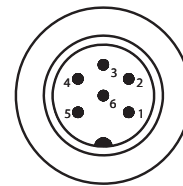
Model	RTDS (M)
Accuracy Class	0.1% F.S
Repeatability	±0.05% F.S.
Excitation Voltage	2...12 Vcc
Sensitivity	1mV/V for (1NM:0.5)±0.1%
Bridge resistance	350Ω
Reference Temperature	23°C
Nominal temp. range	+5 .... +50°C
Service temp. range	-10 ... +60°C
Temperature coeff. of sensitivity	±0.02% /°C
Temperature coeff. of zero	±0.04% /°C
Service torque	150% F.S.
Limit torque	200% F.S.
Ultimate torque	300% F.S.
Durability of brushes	5x10 <sup>7</sup> , tr/min
Level of protection	IP 50
Connector	6 Pin



### ELECTRICAL CONNECTION

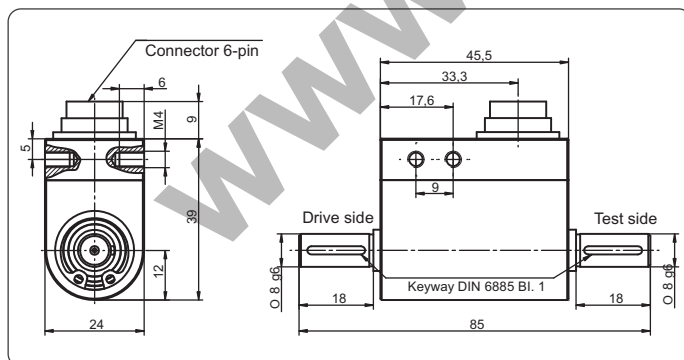
#### 6 Pin Connector

- Pin 1 - Exc(-)    Pin 4 - Sig(+)
- Pin 2 - Exc(+)
- Pin 3 - Shield    Pin 5 - Sig(-)
- Pin 6 - Control Signal

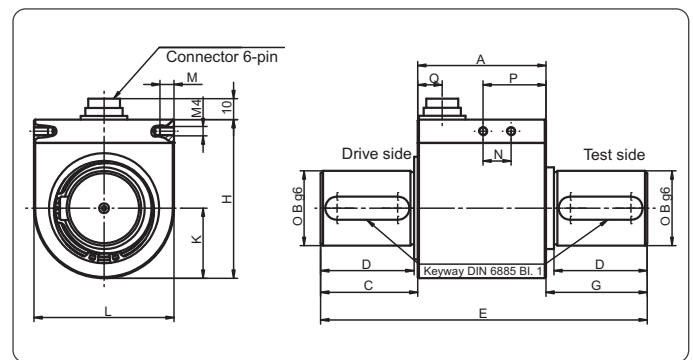


### DIMENSION DETAILS

Torque Range: 1, 2, 5, 10 Nm



Torque Range: 20, 50, 100, 200, 500Nm



### DIMENSION TABLE

Unit : mm

Torque (Nm)	A	B	C	D	E	G	H	K	L	M	N	P	Q
20, 50	47.4	15	21.1	20	90	21.5	54	21	42	6	9.5	11	10.5
100	47.4	18	24	22	95	23.6	54	21	42	6	9.5	11	10.5
200, 500	55	32	41.6	40	140	43.4	68	30	60	6	27	12	10.5

Specifications are subject to change without Prior notice