SREEKA
MAKER OF INNOVATIVE PRODUCTS

ROTARY TORQUE TRANSDUCER

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The Rotational Torque Transducer is a precision instrument designed for dynamic and static torque measurement in rotary systems. It provides real-time data for accurate torque monitoring in applications such as motor testing, drivetrain analysis, and industrial machinery monitoring.

KEY FEATURES

- ✓ Measures dynamic and static torque with high accuracy.
- ✓ Optional rotational speed measurement for combined torque-RPM analysis.
- ✓ Compact and lightweight for seamless integration into rotary setups.
- ✓ Designed to withstand high-speed rotation and mechanical stress.
- ✓ Available in various capacity ranges to suit specific applications.

APPLICATION

- ➢ Motor and generator testing for torque-speed analysis.
- ➢ Automotive drivetrain and gearbox performance testing.
- ➢ Industrial machinery torque monitoring in production lines.
- ➢ Wind turbine and energy generation system testing.
- ➢ Research and development in robotics and rotary systems.

QUICK GUIDE

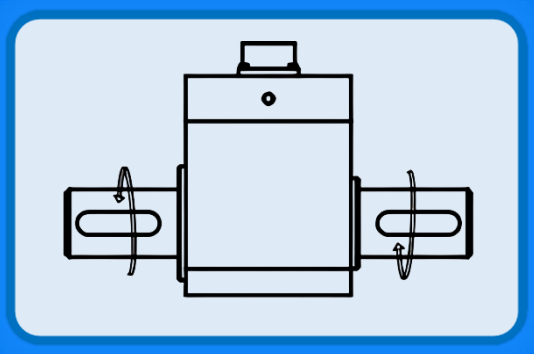
Mounting Suitability:

- ❖ Install between the driving and driven components of a rotational system.
- ❖ Ensure proper alignment and secure coupling to minimize mechanical noise.

Connection Compatibility:

- ❖ Interfaces with data acquisition systems, controllers, and PLCs for monitoring and control.
- ❖ Custom connector and cable options available for specific system requirements.

LOAD DIAGRAM



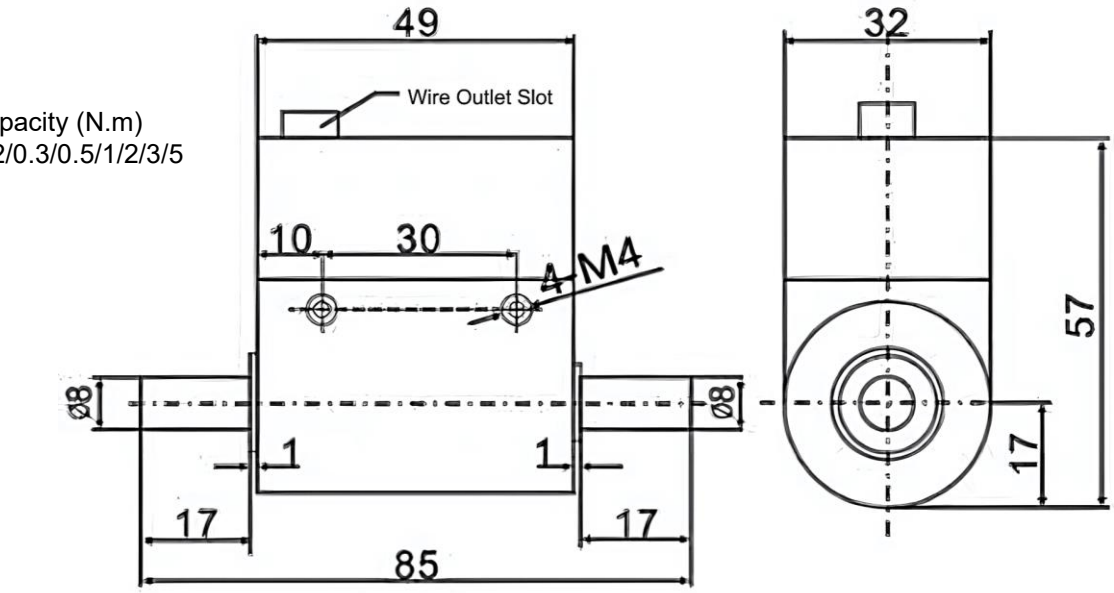
TECHNICAL SPECIFICATION

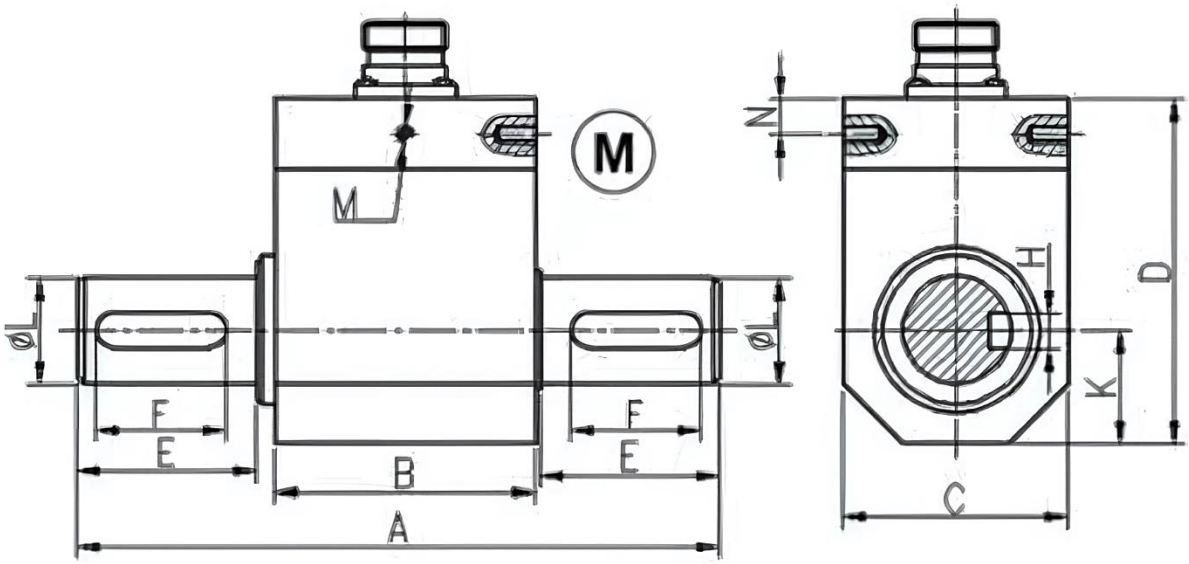
PARAMETER	VALUE	UNIT
PERFORMANCE		
Standard Capacities (Emax)	0.1 to 5000	N.m
Hysteresis	±0.1	% of rated output
Rated Output	1.0 to 1.5	mV/V
Non Linearity	±0.1	% of rated output
Zero Balance	±1	% of rated output
Non-Repeatability	±0.1	% of rated output
Creep Error (30 minutes)	±0.03	% of rated output
Zero Return (30 minutes)	±0.03	% of rated output
TEMPERATURE		
Compensated Temperature Range	-10 to +40	°C
Temperature Effect on Minimum Dead load	0.0026	% of rated output/°C
Temperature Effect on Sensitivity	0.0015	% of rated output/°C
Operating Temperature Range	-20 to +60	°C
ELECTRICAL		
Excitation, recommended	10	VDC
Excitation, maximum	1.5	VDC
Input Resistance	360 ±10	Ohms
Output Resistance	350 ±3	Ohms
Insulation Resistance	5000	MOhms
MECHANICAL		
Safe overload	150	% of R.C
Ultimate overload	200	% of R.C
Material	Stainless steel	
Protection Class	IP66	

*All listed specifications are subject to change without prior notice.

DIMENSION DETAILS

Capacity (N.m)
0.1/0.2/0.3/0.5/1/2/3/5

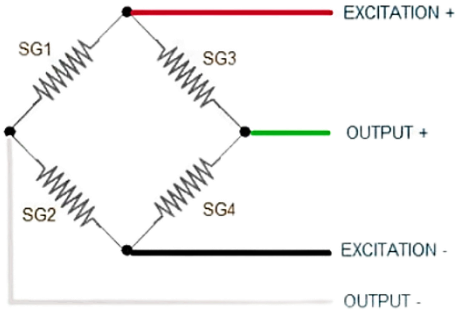




*All dimensions are in mm | Subject to technical changes | Dimensions of other capacities on request.

CAPACITY (N.m)	A	ØL	B	C	D	E	F	K	N	M	H
5/10/20/30/50/100	108	18	44	38	58	30	22	19	6	3-M3	6
200/300/500	143	26	56	53	73.5	40	30	27	6	2-M3	8

PIN ASSIGNMENT



- Input (+ve) : Red
- Output (+ve) : Green
- Input (-ve) : Black
- Output (-ve): White
- Sheild

GET IN TOUCH

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