

Model BRTS-N Series

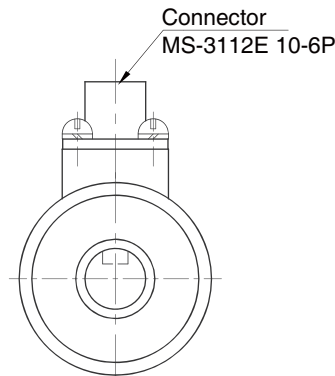
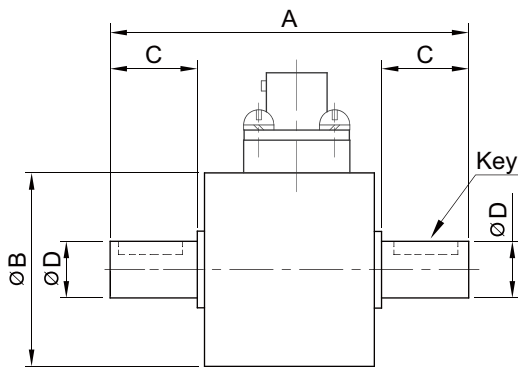
Shaft Type
Reaction Torque Transducer
(10Nm ~ 500Nm)

- 17-4PH stainless steel shaft
& Aluminum housing
- Robust design



SPECIFICATIONS

MODEL	BRTS-N
Rated capacity (R.C.)	10, 20, 50, 100, 200, 500Nm
Rated output(R.O.)	1.5mV/V $\pm$ 0.5%
Non-linearity	$\leq$ 0.2% R.O.
Hysteresis	$\leq$ 0.2% R.O.
Non-repeatability	$\leq$ 0.1% R.O.
Creep error	$\leq$ 0.2% in 20min.
Zero balance	$\leq$ 1% R.O.
Compensated temperature range	-10 ~ 70°C
Operating temperature range	-20 ~ 80°C
Temp. effect on rated output	$\leq$ 0.2% LOAD/10°C
Temp. effect on zero balance	$\leq$ 0.2% R.O./10°C
Terminal input resistance	420 Ohms $\pm$ 50 Ohms
Terminal output resistance	350 Ohms $\pm$ 5 Ohms
Insulation resistance (Min.)	2000 MOhms at 50V DC
Excitation voltage	3~12V(Recommended), 15V(Max.)
Electrical connection	Connector & Cable 3m (5mm, 4core)
Safe overload	150% R.C
Ultimate overload	300% R.C

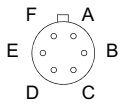


ORDERING INFORMATION

BRTS-N	-	50
MODEL		CAPACITY
BRTS-N		10, 20, 50, 100 200, 500Nm

PIN CONNECTION

- PIN A : EXC + (RED)
PIN B : SIG + (GREEN)
PIN C : EXC - (WHITE)
PIN D : SIG - (BLUE)



Dimension-mm

Rated Capacity	A	ØB	C	ØD	Key	Weight (kg)
10Nm (1.02kg-m)	85	40	20	12	4 x 4	0.3
20Nm (2.04kg-m)	100	46	25	18	5 x 5	0.3
50Nm (5.10kg-m)	110	46	30	18	5 x 5	0.5
100Nm (10.2kg-m)	120	46	35	20	6 x 6	0.6
200Nm (20.4kg-m)	160	58	45	32	10 x 8	1.1
500Nm (51.0kg-m)	170	58	50	35	10 x 8	1.3

* Specifications are subject to change without notice

JAN, 2022

BONGSHIN LOADCELL CO., LTD.

55, Seobuk-ro, Gajang Ind.Complex, Osan-si, Korea / 18103
TEL : 82-31-742-6661 www.bongshin.com
FAX : 82-31-742-6664 E-mail : loadcell@bongshin.com