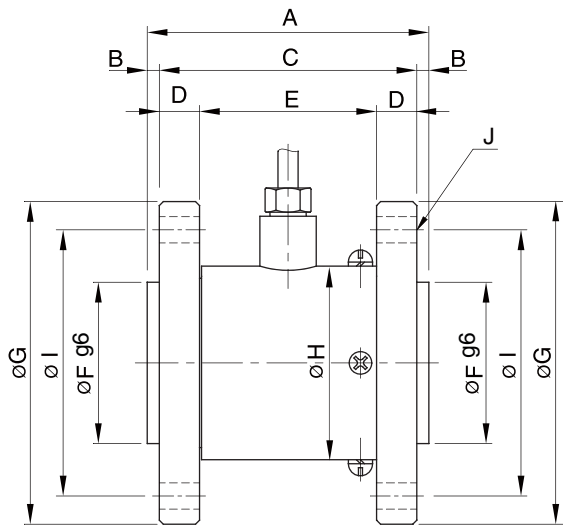


## Model BRTL-N series

Flanged Type Reaction Torque Transducer  
(10Nm ~ 2000Nm)

- Alloy steel
- Robust design
- Electroless nickel plated



### SPECIFICATIONS

| MODEL                                             | BRTL - N                                |
|---------------------------------------------------|-----------------------------------------|
| Rated capacity (R.C.)                             | 10, 20, 50, 100, 200, 500, 1000, 2000Nm |
| Rated output(R.O.)                                | 1.0mV/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                      | $\leq$ 0.1% LOAD/10°C                   |
| Temp. effect on zero balance                      | $\leq$ 0.1% 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<br>(22AWG x 4Core Shielded) | 10~100Nm $\varnothing$ 5mm x 3m         |
|                                                   | 200~2000Nm $\varnothing$ 7mm x 6m       |
| Safe overload                                     | 150% R.C                                |
| Ultimate overload                                 | 300% R.C                                |

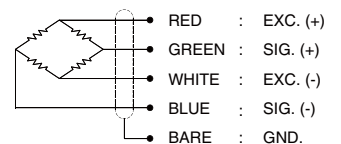
### ORDERING INFORMATION

**BRTL-N - 50**

MODEL  
BRTL-N

CAPACITY  
10, 20, 50, 100, 200,  
500, 1000, 2000Nm

### WIRING INFORMATION



### Dimension-mm

| Rated Capacity            | A   | B | C   | D  | E  | $\varnothing$ F | $\varnothing$ G | $\varnothing$ H | $\varnothing$ I | J                          | Weight (kg) |
|---------------------------|-----|---|-----|----|----|-----------------|-----------------|-----------------|-----------------|----------------------------|-------------|
| 10, 20Nm (1.02, 2.04kg-m) | 62  | 3 | 56  | 8  | 40 | 30              | 66              | 40              | 52              | 2 x 4 - $\varnothing$ 5.5  | 0.9         |
| 50Nm (5.10kg-m)           | 70  | 3 | 64  | 10 | 44 | 40              | 78              | 48              | 66              | 2 x 4 - $\varnothing$ 6.5  | 1.5         |
| 100Nm (10.2kg-m)          | 70  | 3 | 64  | 10 | 44 | 40              | 78              | 48              | 66              | 2 x 4 - $\varnothing$ 6.5  | 1.5         |
| 200Nm (20.4kg-m)          | 86  | 3 | 80  | 15 | 50 | 40              | 98              | 58              | 78              | 2 x 6 - $\varnothing$ 10.5 | 1.8         |
| 500Nm (51.0kg-m)          | 126 | 3 | 120 | 20 | 80 | 60              | 118             | 58              | 95              | 2 x 6 - $\varnothing$ 10.5 | 2.7         |
| 1000Nm (102kg-m)          | 136 | 3 | 130 | 20 | 90 | 60              | 146             | 80              | 115             | 2 x 6 - $\varnothing$ 14   | 2.9         |
| 2000Nm (204kg-m)          | 146 | 3 | 140 | 25 | 90 | 60              | 166             | 88              | 130             | 2 x 6 - $\varnothing$ 18   | 3.2         |

\* Specifications are subject to change without notice

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