

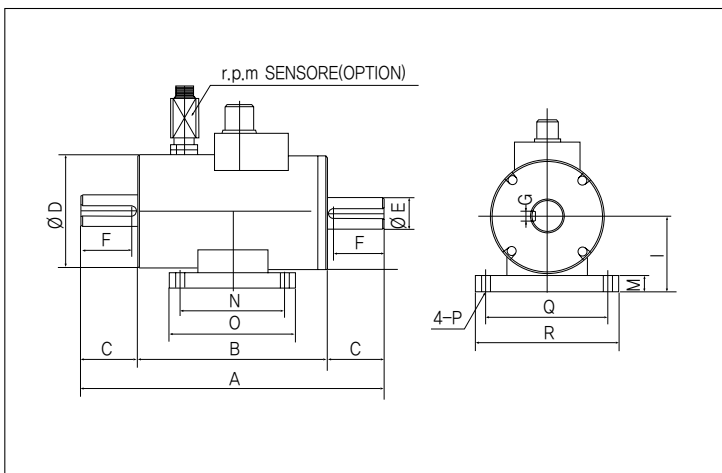
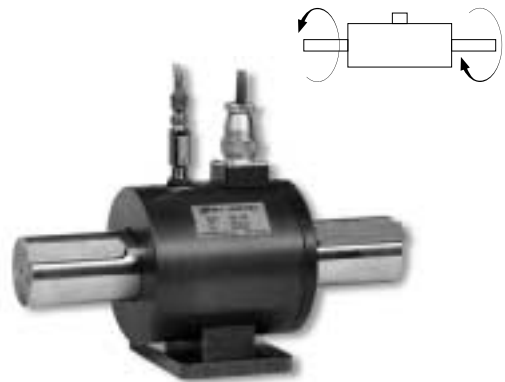
# SHAFT TYPE BRUSHLESS TORQUE SENSORS

## > Model TRC

Model TRC brushless type torque transducers are designed for high RPM application. The brushless type allows a maintenance free and a maximum durability.

This model can be used for various tests including aircraft engine test which requires high RPM and high accuracy.

※Option : r.p.m. sensor, Foot mount.



## > SPECIFICATIONS

| Specifications                      | Accuracy   |
|-------------------------------------|--|
| Rated capacity(R.C)                 | 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000(kgf-m)<br>9.807, 19.61, 49.03, 98.07, 196.1, 490.3, 980.7(N-m) 1.961, 4.903, 9.807, 19.61(KN-m) |
| Rated output(R.O)                   | 1.3mv/v±1%   |
| Nonlinearity                        | ±0.5%R.O.  |
| Hysteresis                          | ±0.5%R.O.  |
| Repeatability                       | ±0.5%R.O.  |
| Excitation recommended              | 2 VAC  |
| Temperature operating               | 0°C~60°C   |
| Temperature effect, on rated output | 0.3% R.O/10°C  |
| Temperature effect, on zero balance | 0.2% Load/10°C   |
| Safe overload                       | 120% R.C   |
| Cable length                        | cable Ø 10 , 4 core shield 5m  |

## > DIMENSIONS TABLE

unit:mm

| Model     | Capacity             | A   | B   | C   | ØD  | ØE  | F   | G     | I   | M  | N   | O   | ØP | Q   | R   | R.P.M  |
|-----------|----------------------|-----|-----|-----|-----|-----|-----|-------|-----|----|-----|-----|----|-----|-----|--------|
| TRC-1K    | 1kgf-m(9.807N-m)     | 236 | 146 | 45  | 84  | 17  | 40  | 5×5   | 55  | 12 | 83  | 101 | 7  | 91  | 109 | 10,000 |
| TRC-2K    | 2kgf-m(19.61N-m)     | 236 | 146 | 45  | 84  | 17  | 40  | 5×5   | 55  | 12 | 83  | 101 | 7  | 91  | 109 | 10,000 |
| TRC-5K    | 5kgf-m(49.03N-m)     | 236 | 146 | 45  | 84  | 17  | 40  | 5×5   | 55  | 12 | 83  | 101 | 7  | 91  | 109 | 10,000 |
| TRC-10K   | 10kgf-m(98.07N-m)    | 240 | 150 | 45  | 90  | 25  | 40  | 8×7   | 60  | 12 | 83  | 101 | 7  | 97  | 115 | 10,000 |
| TRC-20K   | 20kgf-m(196.1N-m)    | 240 | 150 | 45  | 90  | 25  | 40  | 8×7   | 60  | 12 | 83  | 101 | 7  | 97  | 115 | 10,000 |
| TRC-50K   | 50kgf-m(490.3N-m)    | 302 | 162 | 70  | 114 | 45  | 60  | 10×8  | 75  | 15 | 97  | 121 | 9  | 123 | 147 | 8,000  |
| TRC-100K  | 100kgf-m(980.7N-m)   | 302 | 162 | 70  | 114 | 45  | 60  | 10×8  | 75  | 15 | 97  | 121 | 9  | 123 | 147 | 8,000  |
| TRC-200K  | 200kgf-m(1.961KN-m)  | 336 | 176 | 80  | 148 | 70  | 70  | 18×11 | 95  | 20 | 97  | 121 | 9  | 157 | 181 | 5,000  |
| TRC-500K  | 500kgf-m(4.903KN-m)  | 336 | 176 | 80  | 148 | 70  | 70  | 18×11 | 95  | 20 | 97  | 121 | 9  | 157 | 181 | 5,000  |
| TRC-1000K | 1000kgf-m(9.807KN-m) | 445 | 185 | 130 | 173 | 90  | 110 | 25×14 | 110 | 20 | 108 | 134 | 11 | 184 | 210 | 3,800  |
| TRC-2000K | 2000kgf-m(19.61KN-m) | 513 | 193 | 160 | 203 | 110 | 140 | 28×16 | 128 | 23 | 121 | 159 | 13 | 216 | 254 | 3,000  |