TORQUE TRANSDUCER TYPE TMNR-10KNM

SPECIFICATIONS

Rated capacity(R.C.)	: 10 kN・m
Safe overload	: 120 %R.C.
Max. Safe overload	: 200 %R.C.
Rated output(R.O.)	: 1.6 mV/V±0.32 mV/V (in case of combine CSA-561)
Accuracy (Include Non-linearity, Hysteresis and Repeatability)	: 0.5 %R.O. (in case of combine CSA-561)
Recommended excitation	: 2 V AC
Insulation resistance (Bridge-body)	: 500 MΩ or more
Surrounding temrerature range	: 0 ℃ to 40 ℃ (because heat generation of Bearings.)
Safe temrerature range	: 0 ℃ to 90 ℃
Temperature effect on zero balance	: 0.2 %R.O./10℃
Temperature effect on output	: 0.2 %LOAD/10℃
Max. revolution	: 4000 r.p.m.
Rotation effect on zero balance	: 0.3 %R.O.
Generation of heat caused by rotation	: 50 ℃ or under/Max.revolution
IP class	: IP40
Rotation finder gear (build in)	: S45C,120tooth 1module,tooth width 10mm
Rotor weight	: approx. 20.5 kg
Total weight	: approx. 32 kg

ATTACHMENT

Cable : φ10 4core shield 5m
Connector:TC1108-12A10-7M10.0
PRC03-12A10-7M10.5

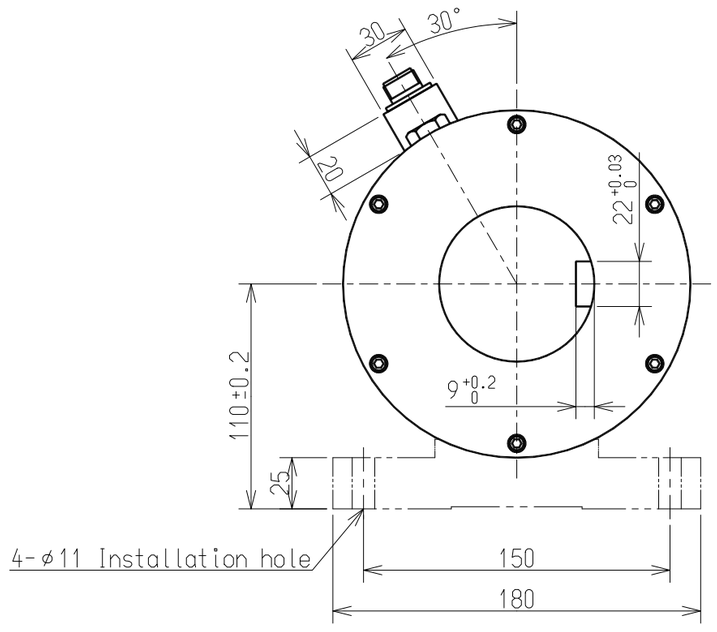
Key : S45C,2pcs

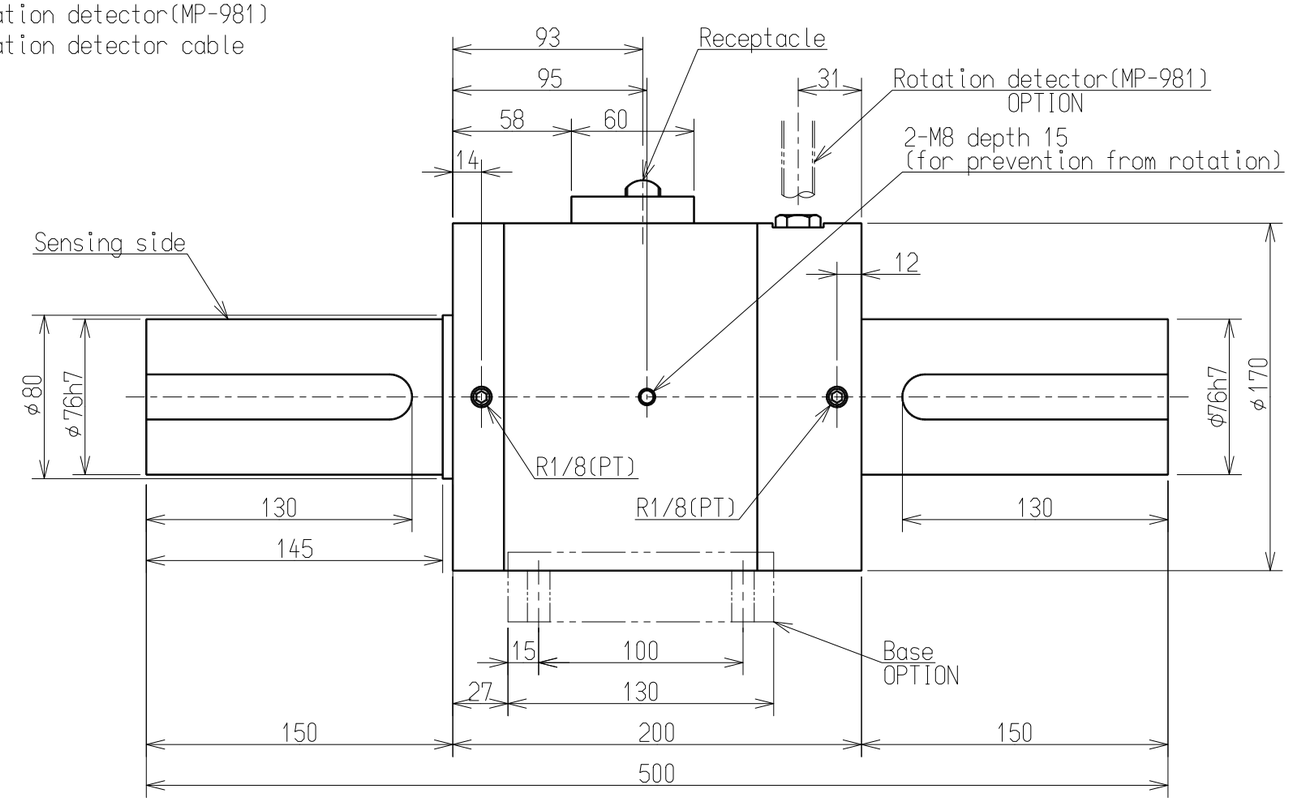
OPTION

Base(NRBS-4)
Rotation detector(MP-981)
Rotation detector cable

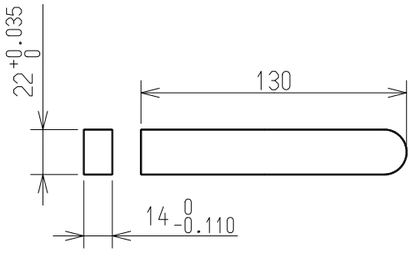
Rotor inertia (kg・cm2)	193.2
Rotor GD2 (kg・cm2)	772.8
Torsional stiffness (kN・m/rad)	744.8
Torsion peculiar pitch (kHz)	2.5
Twist angle at R.C. (°)	0.754
Safe radial load (N)	980.7
Safe radial load(Static) (N)	4903
Safe thrust load (N)	490.3
Bearing	6016ZZ

【NOTES】
Safe radial load:
Above data is at maximun speed.
Safe radial load(static):
Abobe data is direct loading by static test.





【KEY】



公布	
K	
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符号 MARK	日付 DATE	変更事項 REASON / ECN NO.	担当 ENGINEER	承認 APPROVED
-	2015.02.10	NEW	KOBAYASHI	F.IDE

ミネベア株式会社
MINEBEA CO.,LTD.
計測機器事業部

APPROVED	CHECKED	DRAWN
F.IDE	M.Tanaka	Y.Kobayashi

単位 UNIT mm
尺度 SCALE Free

一般公差 TOL	寸法 L	公差
	L≦4	±0.1
	4<L≦16	±0.2
	16<L≦63	±0.3
	63<L≦250	±0.5
	250<L≦1000	±0.8
	角度 DEG	±0.5

材質 MATERIAL: -
表面粗さ SURF.ROUGH.: -
熱処理 HEAT TREAT.: -
表面処理 FINISH: -

作成日 DATE 2015.02.10
品名 DESCRIPTION: OUTLINE
品番 PART NO.(MODEL NO.): TMNR-10KNM
葉番SHEET: 1/1
図番 DRAWING NO.: KT53909-2
改訂 REV.: -