

LOADCELL TYPE UMM1R-50K to 2T

SPECIFICATIONS

●PERFORMANCE

Rated capacity(R.C.) : 490.3 N(50 kgf),
980.7 N(100 kgf),
1.961 kN(200 kgf),
4.903 kN(500 kgf),
9.807 kN(1 tf),
19.61 kN(2 tf)

Safe overload : 150 %R.C.
Ultimate overload : 200 %R.C.
Rated output(R.O.) : 2 mV/V±0.01 mV/V
Non-linearity : 0.15 %R.O.
Hysteresis : 0.1 %R.O.
Repeatability : 0.05 %R.O.

●ELECTRICAL

Recommended excitation : 12 V or under
Maximum excitation : 20 V
Zero balance : ±0.06 mV/V
Input terminal resistance : 425 Ω±50 Ω
Output terminal resistance : 350 Ω±5 Ω
Insulation resistance : 2000 MΩ or more(DC50V)

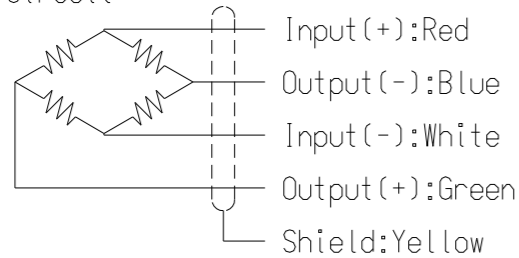
●TEMPERATURE

Compensated temperature range : -10 °C to 70 °C
Safe temperature range : -20 °C to 80 °C
Temperature effect : ±0.05 %R.O./10°C
on zero balance
Temperature effect : ±0.1 LOAD/10°C
on output

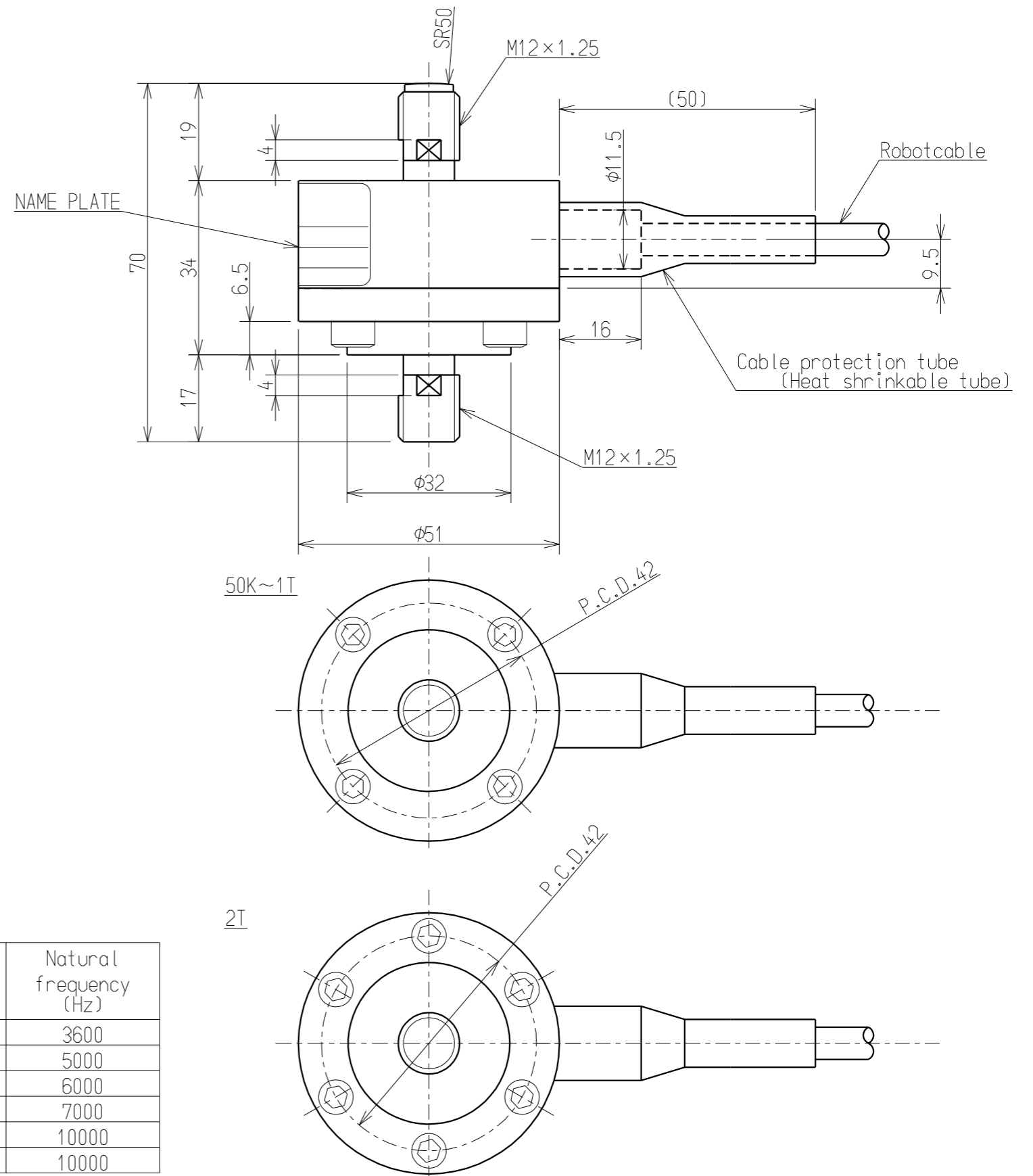
●THE OTHERS

Cable : φ6.3 4core shielded robotcable 6m
connected Y-terminals
IP class : IP67
Weight : Applox 0.6 kg
Material : Stainless steel
Fatigue life : 10⁶ under the R.C.
RoHS : Compliant

●Circuit



TYPE	Displacement at rated load (mm)	Natural frequency (Hz)
UMM1R-50K	0.15	3600
UMM1R-100K	0.10	5000
UMM1R-200K	0.07	6000
UMM1R-500K	0.07	7000
UMM1R-1T	0.05	10000
UMM1R-2T	0.05	10000



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				ミネベア株式会社 MINEBEA CO.,LTD. 計測機器事業部		単位 UNIT mm 尺度 SCALE free	材質 MATERIAL 表面粗さ SURF.ROUGH.	作成日 DATE 2011.6.15 品名 DESCRIPTION OUTLINE	
				APPROVED	CHECKED	DRAWN	熱処理 HEAT TREAT.	品番 PART NO.(MODEL NO.) UMM1R-50K to 2T	葉番 SHEET
符号 MARK	日付 DATE	変更事項 REASON	ECN NO.	担当 ENGINEER	承認 APPROVED	公差 TOL 角度 DEG	表面処理 FINISH	図番 DRAWING NO. KT53167-2	改訂 REV.