

LOADCELL TYPE UMM1-50K 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(COMPRESSION)
	-2 mV/V±0.01 mV/V(TENSION)
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)
	(Bridge-Body)

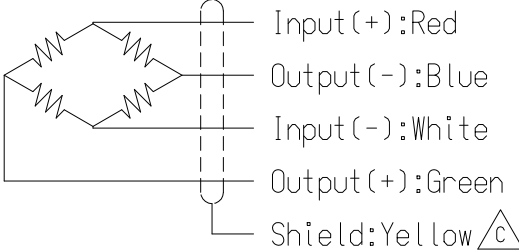
●TEMPERATURE

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

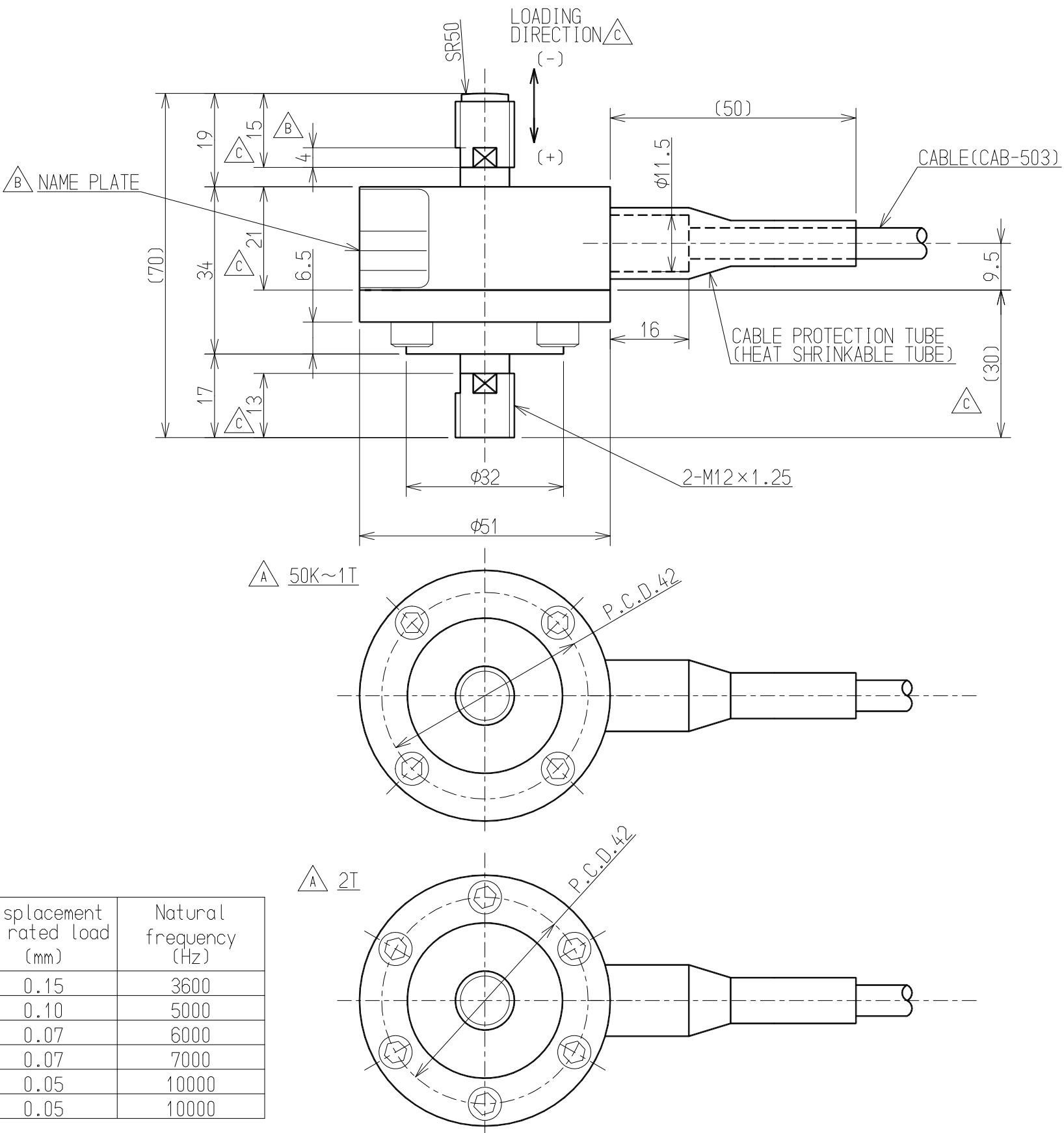
●THE OTHERS

△ Cable	: φ6.3 4core shielded
	3m connected Y-terminals
IP class	: IP67
△ Weight	: Applox 0.6 kg
△ Material	: Stainless steel
△ Fatigue life	: 10 ⁶ under the R.C.
△ RoHS	: Compliant

●Circuit



△ <<Accessories>>
Calibration certificate 1



TYPE	Displacement at rated load (mm)	Natural frequency (Hz)
UMM1-50K	0.15	3600
UMM1-100K	0.10	5000
UMM1-200K	0.07	6000
UMM1-500K	0.07	7000
UMM1-1T	0.05	10000
UMM1-2T	0.05	10000

					ミネベア株式会社 Minebea Co.,Ltd. センシングデバイス事業部 Sensing Device Business Unit				単位 UNIT mm	材質 MATERIAL	作成日 DATE 2016.03.30			
D	2016.3.30	KN16-0150	A.TAKAHASHI	F.IDE					尺度 SCALE Free		表面粗さ SURF.ROUGH.	品名 DESCRIPTION		
C	2012.7.24	KN12-0285	T.TATSUTA	F.IDE	APPROVED	CHECKED	DRAWN	一般公差 DIMENSION L TOL		熱処理 HEAT TREAT.	OUTLINE			
B	2010.2.26	KN10-0057	T.TATSUTA	F.IDE										
A	2010.1.12	KN10-0007	T.TATSUTA	F.IDE									型式 MODEL NAME	葉番 SHEET
-	2003.1.14	NEW	A.Yoshida	F.IDE									UMM1-50K to 2T	/
符号 MARK	日付 DATE	変更事項 REASON	ECN NO.	担当 ENGINEER	承認 APPROVED	F.IDE	S.UCHIBORI	A.Takahashi		表面処理 FINISH	図番 DRAWING NO.	改訂 REV.		
											KT51616-2	D		