

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(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 robotcable 6m
connected Y-terminals

△ Cable minimum bending radius : 30 mm

IP class : IP67

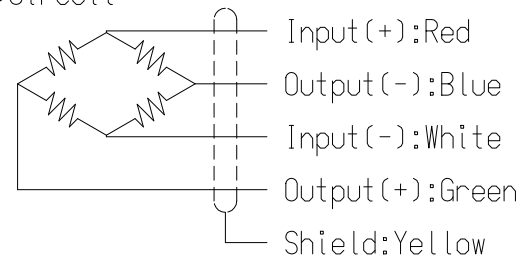
Weight : Aplox 0.6 kg

Material : Stainless steel

Fatigue life : 10⁶ under the R.C.

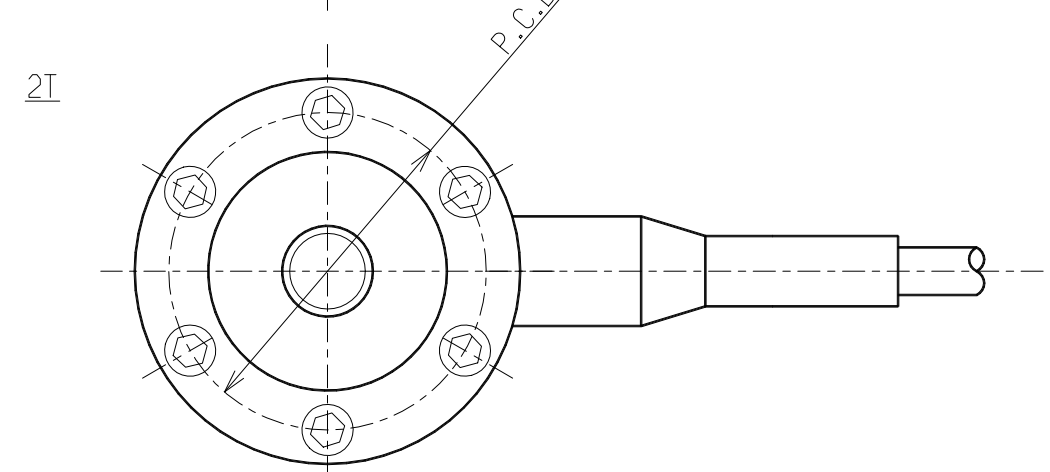
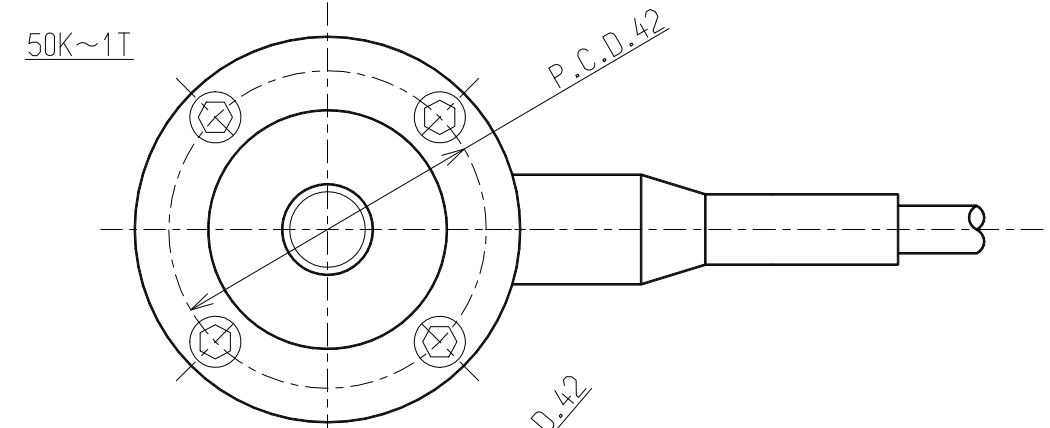
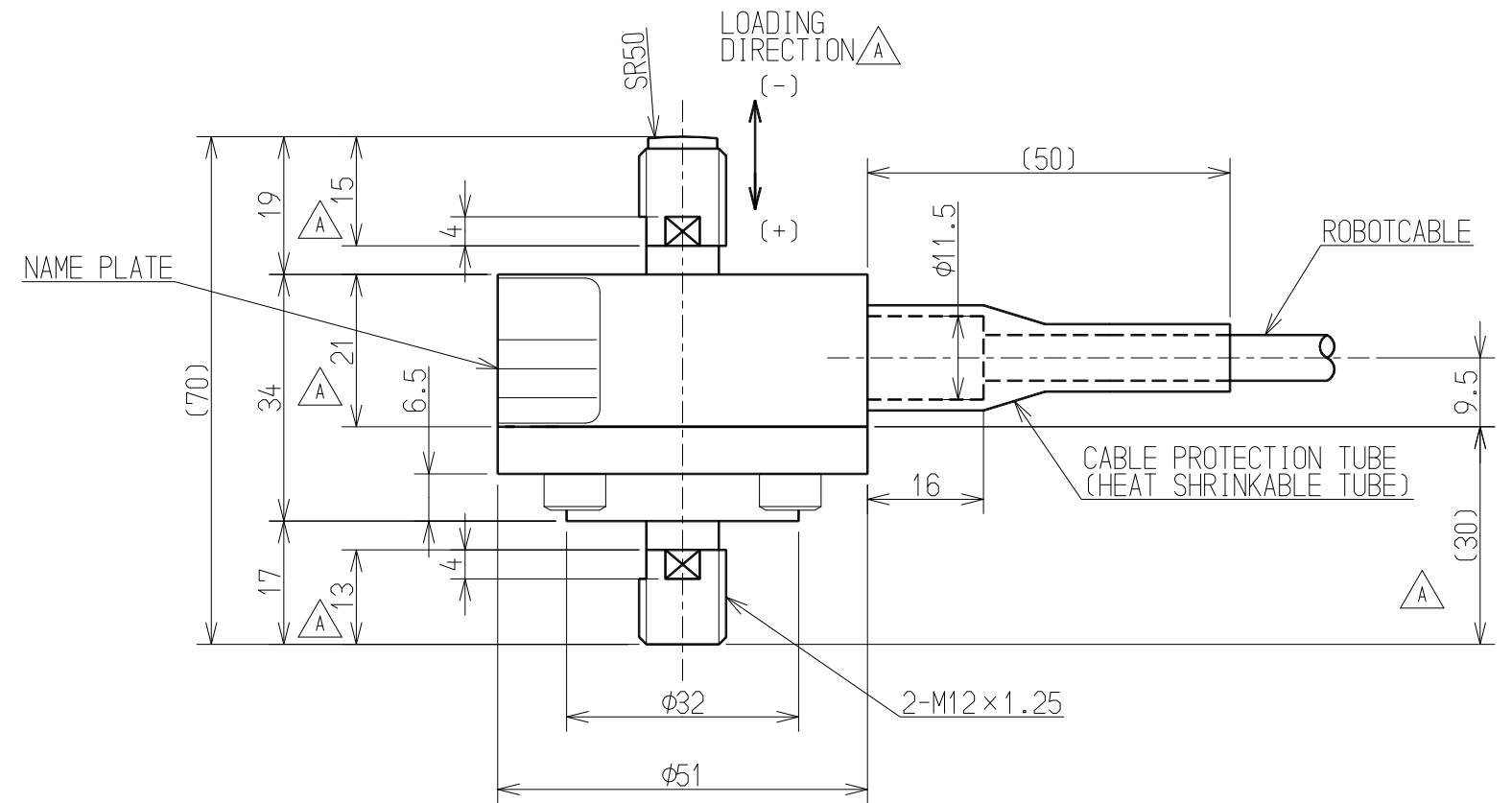
RoHS : Compliant

● Circuit



△ <<Accessories>>

Calibration certificate 1



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

					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 尺度 SCALE free	材質 MATERIAL 表面粗さ SURF.ROUGH. 熱処理 HEAT TREAT. 表面処理 FINISH	作成日 DATE 2016.03.30 品名 DESCRIPTION OUTLINE 型式 MODEL NAME UMM1R-50K to 2T 図番 DRAWING NO. KT53167-2	葉番 SHEET 改訂 REV. C
C	2016.3.30	KN16-0150	A.TAKAHASHI	F.IDE	APPROVED	CHECKED	DRAWN	DIMENSION L TOL <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			
B	2013.5.8	KN13-0172	T.TATSUTA	F.IDE							
A	2012.7.24	KN12-0285	T.TATSUTA	F.IDE							
-	2011.6.15	NEW	T.TATSUTA	F.IDE							
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			