

LOADCELL TYPE CB14-100K~500K-21△
SPECIFICATIONS

●PERFORMANCE

Rated capacity(R.C.) : 980.7 N { 100 kgf },
1.471 kN { 150 kgf }, △
2.452 kN { 250 kgf },
2.942 kN { 300 kgf },
4.903 kN { 500 kgf } △

Safe overload : 150 %R.C.
Ultimate overload : 200 %R.C.
Rated output(R.O.) : 2.2 mV/V±0.11 mV/V
Non-linearity : 0.02 %R.O.
Hysteresis : 0.02 %R.O.
Repeatability : 0.02 %R.O.
Creep : 0.02 %R.O./20min
Creep recovery : 0.02 %R.O./20min

●ELECTRICAL

Recommended excitation : 12 V or less
Maximum excitation : 20 V
Zero balance : ±0.11 mV/V
Input terminal resistance : 405 Ω±10 Ω
Output terminal resistance : 350 Ω±5 Ω
Insulation resistance : 2000 MΩ or more(DC50 V)
(bridge-body)

●TEMPERATURE

Compensated temperature range: -10 °C to 50 °C
Safe temperature range : -10 °C to 70 °C
Temperature effect : 0.05 %R.O./10°C
on zero balance
Temperature effect : 0.02 %LOAD/10°C
on output

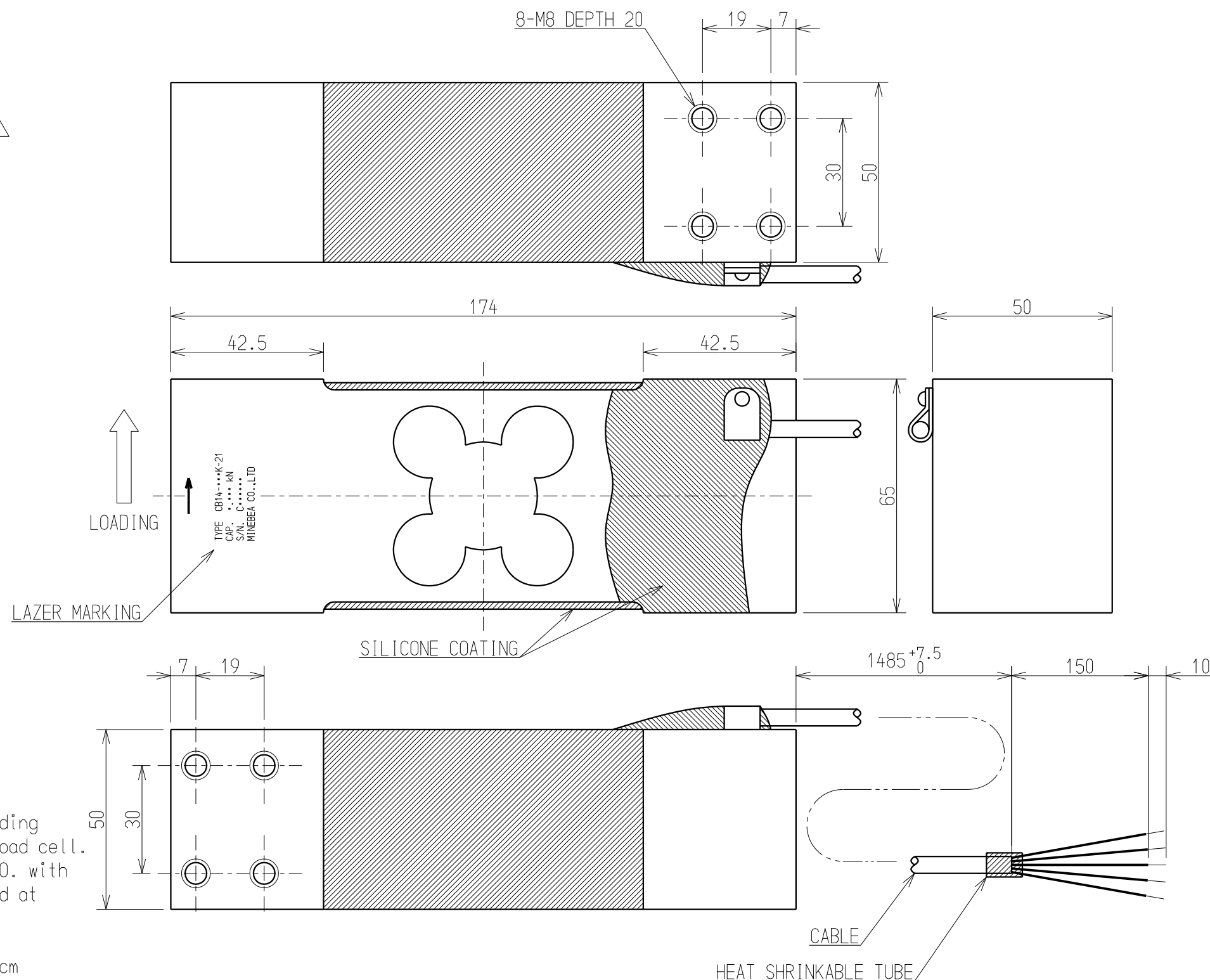
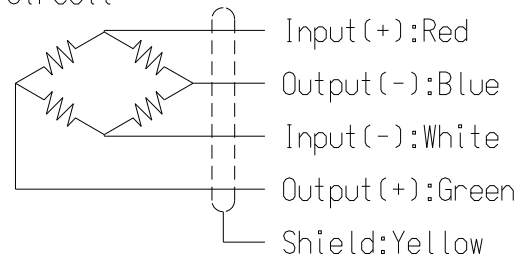
●INFLUENCE OF ECCENTRIC LOAD

Max size of the loading plate: 450 mm×600 mm
The center of loading plate : Be sure to adjust of loading
plate to the center of load cell.
Measuring accuracy : Accuracy within 0.02 %R.O. with
1/2 of rated load applied at
150 mm from center.

●THE OTHERS

△ Cable : Ø4.7 4core shield 164.5 cm
△ IP label : IP64
Material of element : ALUMINIUM ALLOY
Weight : approx 1.3 kg

●Circuit



公布	
K	
S	
T	
F	

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	作成日 DATE 2002.11.14
H	2011.6.1	KN11-0179	S.UCHI	F.IDE	一般公差 TOL		表面粗さ SURF.ROUGH.	品名 DESCRIPTION OUTLINE
G	2009.1.13	KN09-0014	S.UCHI	A.MURO			熱処理 HEAT TREAT.	品番 PART NO.(MODEL NO.) CB14-100K~500K-21△
F	2006.8.10	KN06-0322	M.ONUMA	F.IDE			表面処理 FINISH	図番 DRAWING NO. K507319-2
E	2002.11.14	KN02-0402	T.KIMURA	A.MURO				葉番 SHEET 改訂 REV. H
符号 MARK	日付 DATE	変更事項 REASON	ECN NO.	担当 ENGINEER	承認 APPROVED			
					A.MUROHASHI	A.MUROHASHI	A.Yoshida	
					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	