

LOADCELL TYPE CB14-100K~500K-21  $\triangle$ F

SPECIFICATIONS

● PERFORMANCE

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

Safe overload : 150 %R.C.  
 Ultimate overload : 200 %R.C.  
 Rated output(R.O.) : 2.2 mV/V $\pm$ 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 :  $\pm$ 0.11 mV/V  
 Input terminal resistance : 405  $\Omega$  $\pm$ 10  $\Omega$   
 Output terminal resistance : 350  $\Omega$  $\pm$ 5  $\Omega$   
 Insulation resistance : 2000 M $\Omega$  or more(DC50 V)  
 (bridge-body)

● TEMPERATURE

Compensated temperature range: -10  $^{\circ}$ C to 50  $^{\circ}$ C  
 Safe temperature range : -10  $^{\circ}$ C to 70  $^{\circ}$ C  
 Temperature effect : 0.05 %R.O./10 $^{\circ}$ C  
 on zero balance  
 Temperature effect : 0.02 %LOAD/10 $^{\circ}$ C  
 on output

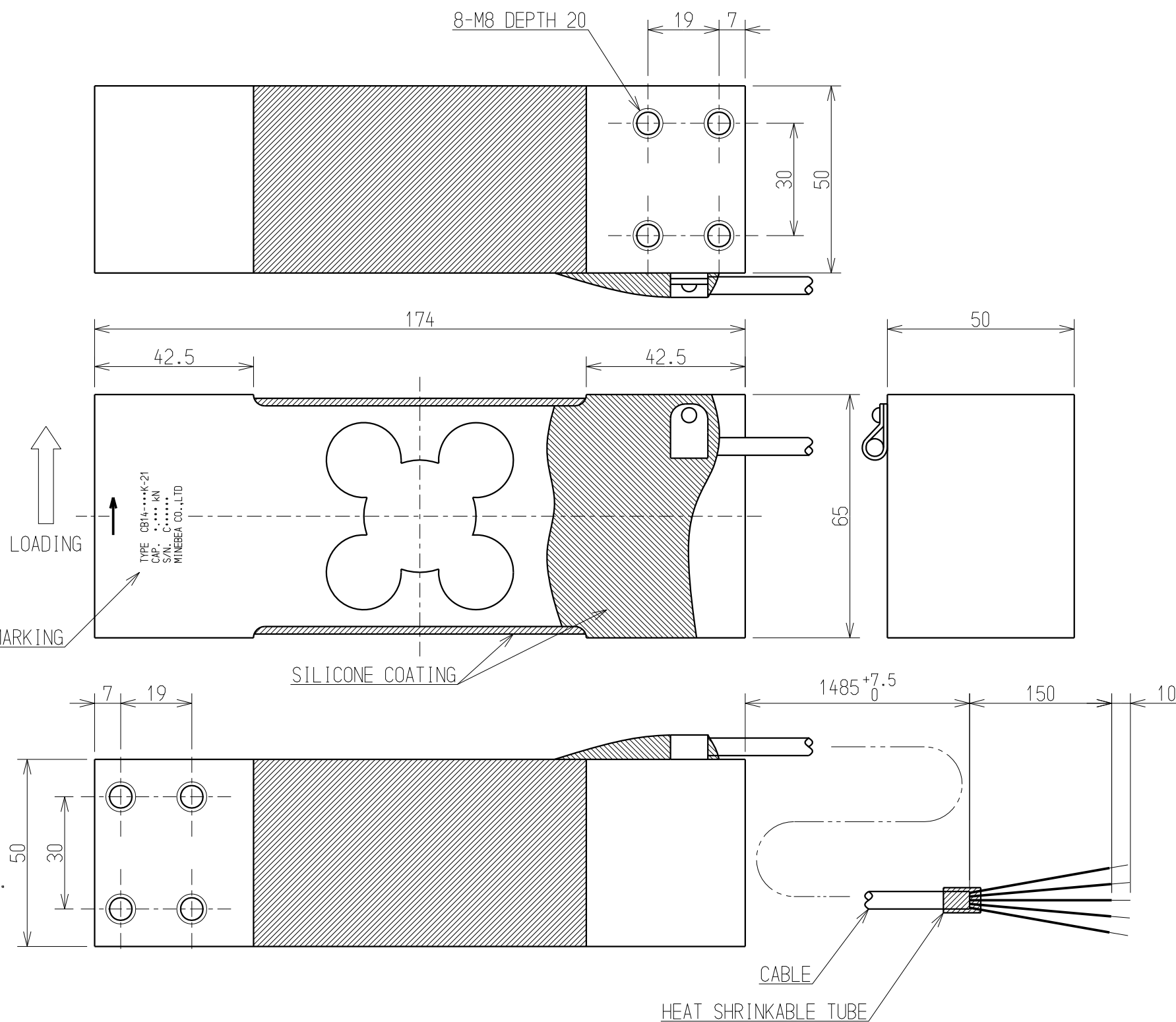
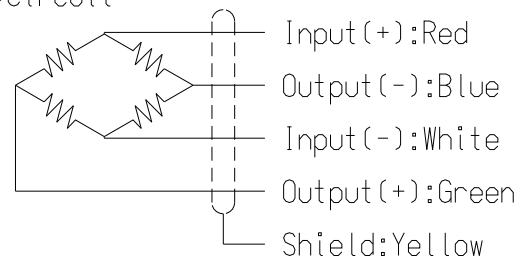
● INFLUENCE OF ECCENTRIC LOAD

Max size of the loading plate: 450 mm $\times$ 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 :  $\phi$ 4.7 4core shield 164.5 cm  
 $\triangle$ G IP level : 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 表面粗さ SURF.ROUGH. 熱処理 HEAT TREAT. 表面処理 FINISH		作成日 DATE 2002.11.14 品名 DESCRIPTION OUTLINE 品番 PART NO.(MODEL NO.) CB14-100K~500K-21 $\triangle$ F 図番 DRAWING NO. K507319-2		
H	2011.6.1	KN11-0179	S.UCHI	F.IDE	一般公差 TOL 寸法 L 公差 <L $\leq$ 4 $\pm$ 0.1 4<L $\leq$ 16 $\pm$ 0.2 16<L $\leq$ 63 $\pm$ 0.3 63<L $\leq$ 250 $\pm$ 0.5 250<L $\leq$ 1000 $\pm$ 0.8 角度 DEG $\pm$ 0.5	承認 APPROVED A.MUROHASHI A.MUROHASHI A.Yoshida	承認 APPROVED A.MUROHASHI A.MUROHASHI A.Yoshida	承認 APPROVED A.MUROHASHI A.MUROHASHI A.Yoshida	承認 APPROVED A.MUROHASHI A.MUROHASHI A.Yoshida	承認 APPROVED A.MUROHASHI A.MUROHASHI A.Yoshida	承認 APPROVED A.MUROHASHI A.MUROHASHI A.Yoshida
G	2009.1.13	KN09-0014	S.UCHI	A.MURO							
F	2006.8.10	KN06-0322	M.ONUMA	F.IDE							
E	2002.11.14	KN02-0402	T.KIMURA	A.MURO							
符号 MARK	日付 DATE	変更事項 REASON	ECN NO.	担当 ENGINEER	承認 APPROVED					葉番 SHEET	改訂 REV. H