LOADCELL TYPE BCL-300GM～4.5K-A

SPECIFICATIONS

●PERFORMANCE

Rated capacity(R.C.)	: 2.942 N { 300 gf }, 5.884 N { 600 gf }, 11.77 N { 1.2 kgf }, 14.71 N { 1.5 kgf }, 29.42 N { 3 kgf }, 44.13 N { 4.5 kgf }
Safe overload	: 150 %R.C.
Ultimate overload	: 200 %R.C.
Rated output(R.O.)	: 1.6 mV/V±0.2 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	: 10 V or less
Maximum excitation	: 15 V
Zero balance	: ±0.04 mV/V
Input terminal resistance	: 420 Ω$^{+30}_{-20}$ Ω
Output terminal resistance	: 350 Ω±5 Ω
Insulation resistance (bridge-body)	: 2000 MΩ or more(DC50 V)

●TEMPERATURE

Compensated temperature range	: -10 ℃ to 50 ℃
Safe temperature range	: -10 ℃ to 50 ℃
Temperature effect on zero balance	: 0.04 %R.O./10℃
Temperature effect on output	: 0.02 %LOAD/10℃

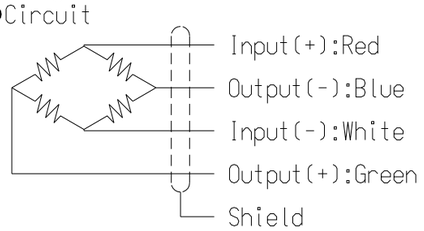
●INFLUENCE OF ECCENTRIC LOAD

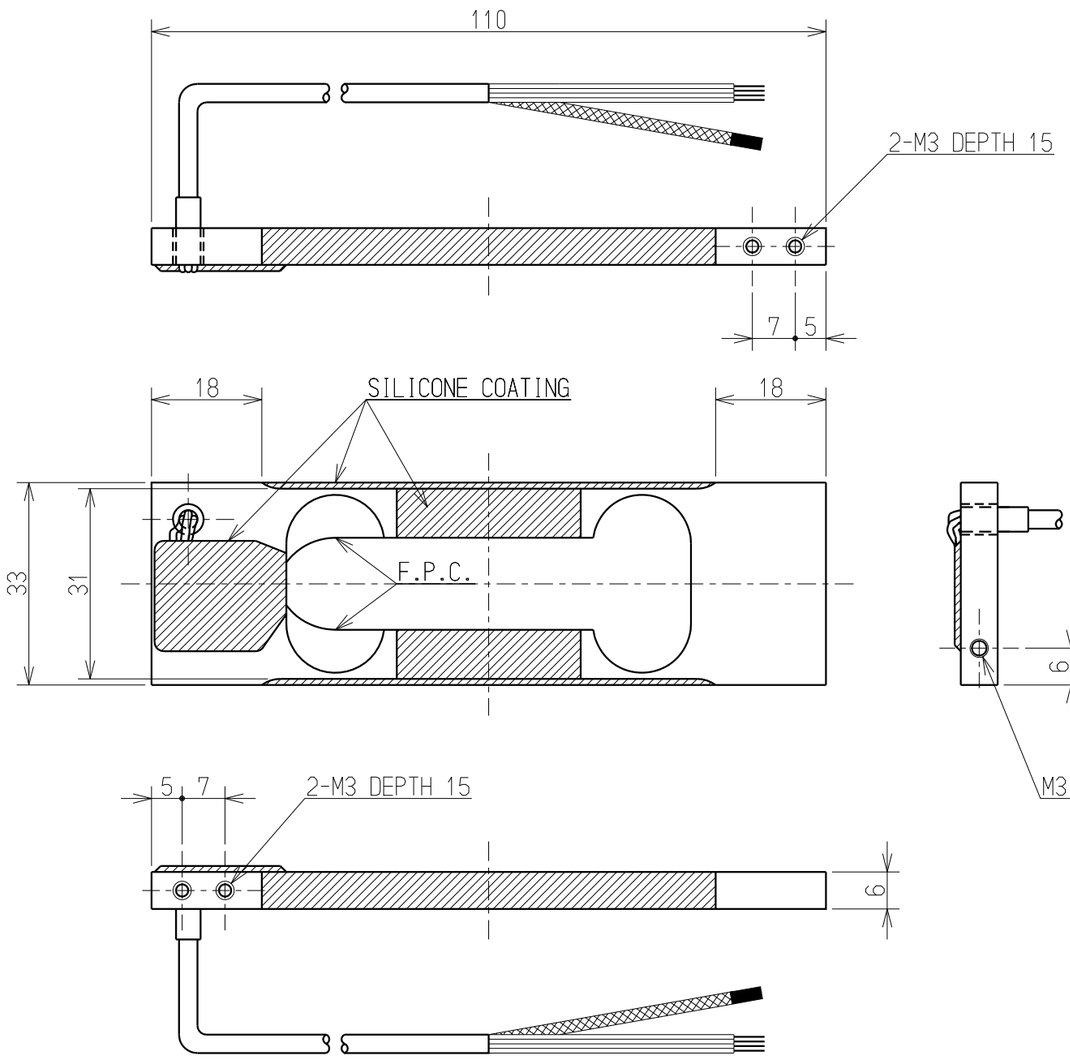
Max size of the loading plate	: 200 mm×200 mm(300GM TO 600GM) 300 mm×300 mm(1.2K TO 4.5K)
The center of loading plate	: Be sure to adjust of loading plate to the center of load cell.
Measuring accuracy	: Accuracy within 0.02 %R.O. with 1/2 of rated load applied at 50 mm from center.(300GM TO 600GM) 75 mm from center.(1.2K TO 4.5K)

●THE OTHERS

Cable	: φ3.2 4core shield 40 cm
IP level	: IP40
Material of element	: ALUMINIUM ALLOY
Weight	: approx 40 g

●Circuit





公布	
K	
S	
T	
F	

符号 MARK	日付 DATE	変更事項 REASON / ECN NO.	担当 ENGINEER	承認 APPROVED

ミネベア株式会社
MINEBEA CO.,LTD.
計測機器事業部

APPROVED	CHECKED	DRAWN
F.IDE	A.MUROHASHI	M.Onuma

単位 UNIT mm
尺度 SCALE FREE

一般公差 TOL	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

材質 MATERIAL
表面粗さ SURF.ROUGH.
熱処理 HEAT TREAT.
表面処理 FINISH

作成日 DATE 2006.8.21
品名 DESCRIPTION OUTLINE
品番 PART NO.(MODEL NO.) BCL-300GM～4.5K-A
葉番SHEET /
図番 DRAWING NO. KT52299-2
改訂 REV. –