

## SPECIFICATIONS

### Load Beam Compression Type Load Cell

LOAD CELL  
CBE1-5K ~ 200K

SPEC.No.EN213005-B

1/2

#### Performance

Rated capacity	: 49.03 N{5 kgf} ~ 1.961 kN{200 kgf}
Safe overload	: 150 %R.C.
Ultimate overload	: 200 %R.C.
Rated output	: 2 mV/V $\pm$ 0.003 mV/V
Non-linearity	: 0.05 %R.O.
Hysteresis	: 0.05 %R.O.
Repeatability	: 0.03 %R.O.

#### Electrical

Excitation, recommended	: 12 V or less
Excitation at maximum	: 20 V
Zero balance	: $\pm$ 0.02 mV/V
Input resistance	: 400 $\pm$ 50
Output resistance	: 350 $\pm$ 5
Insulation resistance	: 2 000 M or more(DC 50 V)

( Between bridge and main body )

#### Temperature

Temperature range, compensated	: - 10 to 60
Temperature range, safe	: - 20 to 80
Temperature effect on zero balance	: 0.03 %R.O./10
Temperature effect on output	: 0.03 %LOAD/10

Cable : 6.3 mm, 4-cores shielded 5 m cable directly attached.  
Y-type solderless terminal is attached at cable end.

Class of protection : Equivalent to IP67.(Main body only)

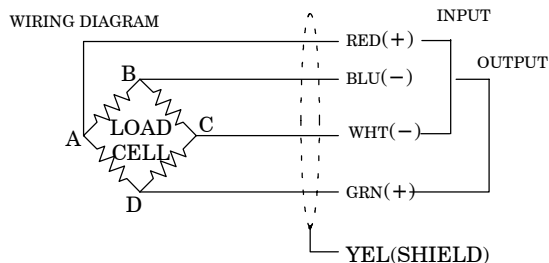
Materials of the element : Stainless steel

Durability : 10<sup>6</sup> times with rated load.

Note) R.O. means Rated Output and also R.C. means Rated Capacity.

Polarity of output will become plus(+) when the direction of compression load is applied.

If polarity change is required, change wiring of blue and green.



#### Composition

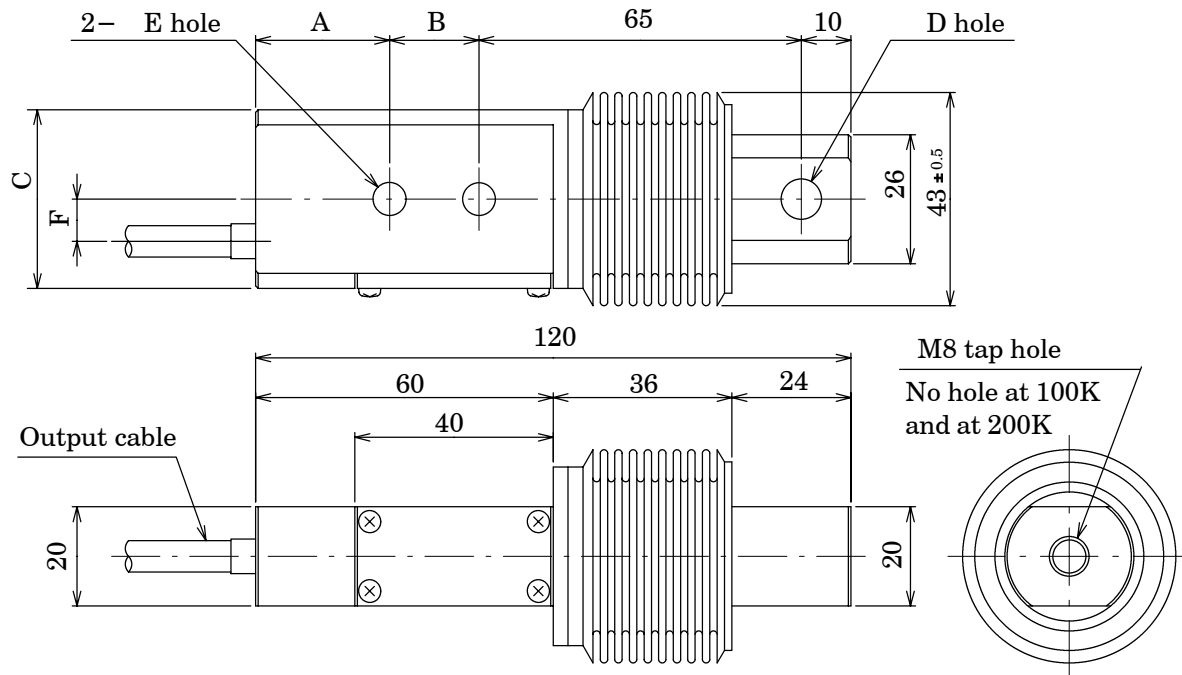
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Unit : mm

Outline dimensions

Unit : mm

P/N	Rated capacity	A	B	C	D	E	F	Rated displacement	Natural frequency (Hz)	Weight (Approx. g)
CBE1-5K	49.03 N{5 kgf}	27	18	34	8.1	6.6	8.5	0.19	250	730
CBE1-10K	98.07 N{10 kgf}							0.21	384	
CBE1-20K	196.1 N{20 kgf}	27	18	34	8.1	6.6	8.5	0.21	420	760
CBE1-50K	490.3 N{50 kgf}							0.25	555	
CBE1-100K	980.7 N{100 kgf}	25	20	36	10.1	8.4	9.5	0.23	1250	760
CBE1-200K	1.961 kN{200 kgf}							0.32	1428	

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.