

SPECIFICATIONS

Small Size Compression Type
Load Cell

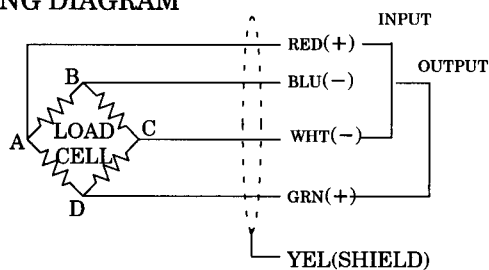
Load Cell
CMM1-50K~2T

SPEC.No.EN211101-B 1/3

- Performance
 - Rated capacity : 490.3 N{50 kgf}~19.61 kN{2 tf}
 - Safe overload : 150 %R.C.
 - Ultimate overload : 200 %R.C.
 - Rated output : 2 mV/V±0.005 mV/V
 - Non-linearity : 0.15 %R.O.
 - Hysteresis : 0.1 %R.O.
 - Repeatability : 0.05 %R.O.
- Electrical
 - Excitation, recommended : 12 V or less
 - Excitation, at maximum : 18 V
 - Zero balance : ±0.06 mV/V
 - Input resistance : 425 Ω ± 50 Ω
 - Output resistance : 350 Ω ± 5 Ω
 - Insulation resistance : 2 000 MΩ 以上(DC 50 V)
(between bridge and main body)
- Temperature
 - Temperature range, compensated : -10 °C to 70 °C
 - Temperature range, safe : -20 °C to 80 °C
 - Temperature effect on zero balance : 0.05 %R.O./10 °C
 - Temperature effect on output : 0.1 %LOAD/10 °C
- Cable : φ 6.3, 4-cores shielded cable 3 m directly attached
Y type crimp type terminal lugs are attached at cable end.
- Class of protection : Equivalent to IP67 (only main body)
- Material of the element : Stainless steel
- Durability : 10⁶ times with the 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.

WIRING DIAGRAM



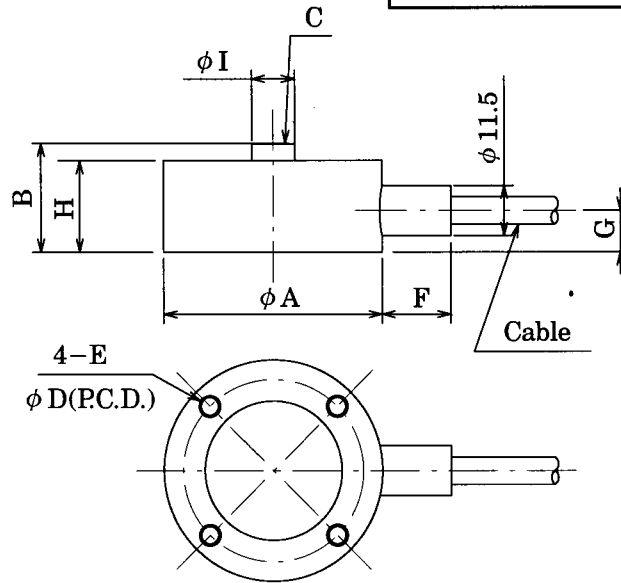
Composition	
Main body	1
Inspection data sheet	1
Instruction manual	1

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Load Cell
CMM1-50K~2T

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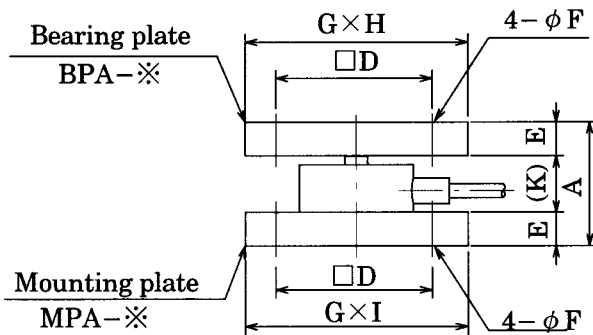
Unit : mm

Outline dimensions

(Unit : mm)

P/No.	Rated capacity	ϕA	B	C	ϕD	E	F	G	H	ϕI	Rated displacement	Natural frequency (Hz)	Weight (Approx. kg)
CMM1-50K	490.3 N{50 kgf}	51	25	SR50	42	4-M5×0.8 depth 6	16	9.5	21	10	0.15	3 600	0.34
CMM1-100K	980.7 N{100 kgf}										0.10	5 000	
CMM1-200K	1.961 kN{200 kgf}										0.07	6 000	
CMM1-500K	4.903 kN{500 kgf}										0.07	7 000	
CMM1-1T	9.807 kN{1 tf}										0.05	10 000	
CMM1-2T	19.61 kN{2 tf}										0.05	10 000	

BEARING & MOUNTING PLATE ATTACHED



Composition

Main body	1
Bearing plate(BPA-※)	1
Mounting plate(MPA-※)	1
Hexagon socket head cap screws (attached to MPA)	4

Outline dimensions

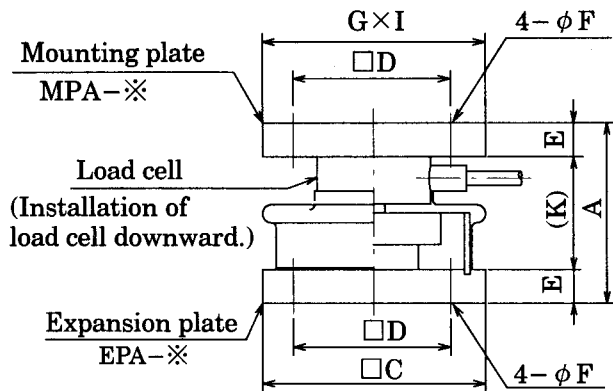
(Unit : mm)

P/No.	P/No. of Accessory (Options)	A	$\square D$	E	ϕF	G	H	I	K	Weight (Approx.kg)
CMM1-50K	BPA-1-B MPA-2-B	55	77	15	8	100	100	100	25	3.04
CMM1-100K										
CMM1-200K										
CMM1-500K										
CMM1-1T										
CMM1-2T										

The load cell may touch to either side of bearing plate as far as both sides of bearing plate have curved their P/N on them. In case of bearing plate whose touching side is curved, locate the load cell to the center of bearing plate where the P/N has curved.

SPECIFICATIONS

EXPANSION & MOUNTING PLATE ATTACHED



Load Cell CMM1-50K~2T	
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Composition	
Main body	1
Expansion plate (EPA-*)	1
Mounting plate (MPA-*)	1
Hexagon Socket Cap Screws (Accessories for MPA)	4

Outline dimensions

(Unit : mm)

P/No.	P/No.of accessory (Options)	A	□C	□D	E	φF	G	I	K	Expansion limit	Weight (Approx.kg)
CMM1-50K	MPA-2-B	80	100	77	15	8	100	100	50	±8	3.64
CMM1-100K	EPA-1A										
CMM1-200K											
CMM1-500K											
CMM1-1T											
CMM1-2T											

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