

Compact size compression type load cell CMM1-※ series

2024/02/28

Discontinued Products

Alternative

[Compact size compression type load cell CMM1R-※ series](#)[Compact size compression type load cell CMM1J-※ series](#)

Features



Compact size, light weight load cell with all stainless steel construction.

Specification

Specification name	Specification contents
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.
Excitation, recommended	12 V or less
Excitation, maximum	18 V
Zero balance	±0.06 mV/V

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Input resistance	425 Ω \pm 50 Ω
Output resistance	350 Ω \pm 5 Ω
Insulation resistance	2,000 M Ω or more (DC50 V) (between bridge and main body)
Temp. range, compensated	-10 $^{\circ}$ C \sim 70 $^{\circ}$ C
Temp. range, safe	-20 $^{\circ}$ C \sim 80 $^{\circ}$ C
Temp. effect on zero	0.05 %R.O./10 $^{\circ}$ C
Temp. effect on output	0.1 %LOAD/10 $^{\circ}$ C
Class of protection	IP67 or equivalent
Material of element	Stainless steel
Durability	1,000,000 times with rated load applied.

Options

<Expansion plate>

[EP series EP2](#)

<Mounting plate>

[BP/MP series BPMP3](#)

<Mounting attachment with slide-stop mechanism>

[Flexible stop method mounting attachment FCA-CMM1/CMP1 series](#)

[Steel ball method mounting attachment SCA-CMM1/CMP1 series](#)

[Robot cable for CMM1J \(RC019-6M\)](#)