

"MDF" / 6-Component force sensor

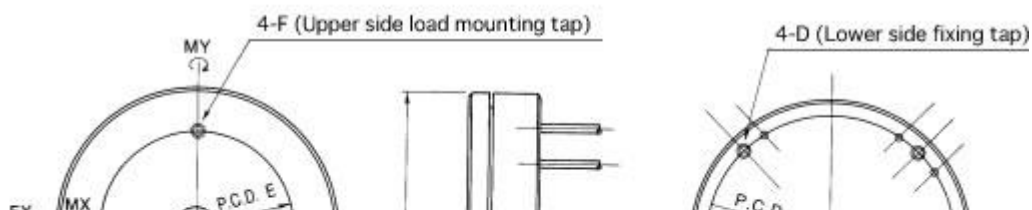


Features

- Small size and light weight. This is a 6-component load cell with a single focussing point.
- Excellent dynamical properties because of less in the amount of deflection.
- Less crosstalk between respective components.
- For the use in experimental equipment in wind tunnels.
- For driver's seat simulation.
- For use in tire properties testing equipment.
- For use on spring properties evaluation test equipment.
- For robots and so on.

Related products : [Applications of 6-Component force sensor](#) / [Shift-knob sensor of 6-Component](#)

Appearance Dimensions



Model and Component force / Dimension / Material (unit : mm)

Model	F _x	F _y	F _z	M _x	M _y	M _z	A	B	C	D	E	F	Material
MDF-1KN	1kN	1kN	2kN	3kN•cm	3kN•cm	6.5kN•cm	125	30	110	M6	85	M6	aluminum base alloy
MDF-2KN	2kN	2kN	4kN	6kN•cm	6kN•cm	13kN•cm	125	32	110	M6	85	M6	aluminum base alloy
MDF-3KN	3kN	3kN	6kN	10kN•cm	10kN•cm	20kN•cm	135	35	120	M8	95	M8	aluminum base alloy
MDF-5KN	5kN	5kN	10kN	17kN•cm	17kN•cm	35kN•cm	175	40	160	M8	130	M8	aluminum base alloy
MDF-10KN	10kN	10kN	20kN	25kN•cm	25kN•cm	50kN•cm	140	40	120	M10	110	M10	alloy steel

- * The cable drawing out direction can be changed to horizontal.

■ Specifications

Safe Overload	150%RC
Rated Output	1.2 mV/V±15%
Nonlinearity	0.4%RO
Hysteresis	0.4%RO
Repeatability	0.2%RO
Excitation Voltage	8V (or less)
Safe Excitation Voltage	15V
Input Resistance	400Ω±3%(aluminum base alloy),380Ω±3%(alloy steel)
Output Resistance	350Ω±3%
Compensated Temp.Range	0 to 40°C
Safe Temp.Range	-10 to 50°C
Temp.Effect on Zero	0.02%RO/°C
Temp.Effect on Output	0.05%RO/°C
Crosstalk	Within 1.5%RO (Effect by F-components) Within 2.5%RO (Effect by M-components)
Cable	Φ 3mm-4wire shielded cable, length : 3m