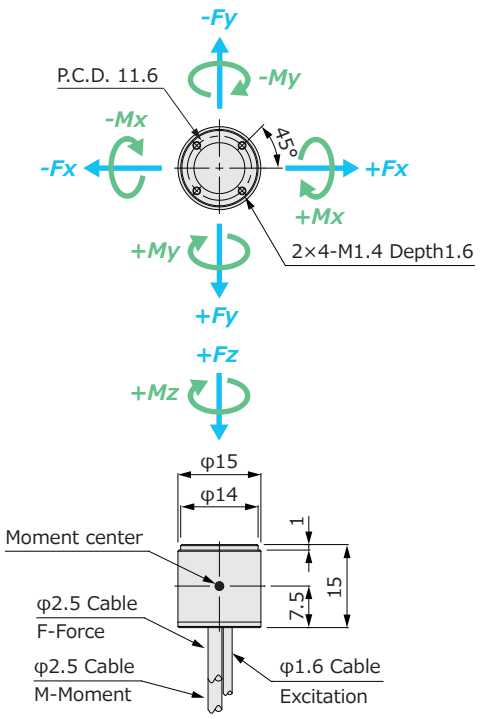
Miniature 6-component Force Transducer

6DM

- Capacities : Fx,Fy,Fz : 50N
  Mx,My,Mz : 0.2N･m
- Miniature
- Custom made available
- **6-component measure**
  Enables simultaneous measurement of 3components of force(Fx,Fy,Fz) in 3 axial directions orthogonal to the transducerand 3moments(Mx,My,Mz) around the axes.

Outline dimensions (mm)



Custom made available

・Rated capacity
・Outline

Specifications

Rated capacity	Fx,Fy : 50N Fz : 50N Mx,My,Mz : 0.2N･m
Rated output (approx.)	Fx,Fy : 0.7mV/V Fz : 0.15mV/V Mx,My : 0.2mV/V Mz : 0.2mV/V
Zero balance	±10%R.O.
Nonlinearity	±0.5%R.O.
Hysteresis	±0.5%R.O.
Interference ※	±3%R.O.
Excitation, recommended	2V
Excitation, maximum	3V
Input impedance (approx.)	60Ω～150Ω
Output impedance (approx.)	120Ω～500Ω
Insulation resistance	>1000MΩ (B/E DC50V)
Temperature range, compensated	0℃～+60℃
Temperature range, safe	−10℃～+70℃
Temperature effect on zero	±0.05%R.O./℃
Temperature effect on output	±0.05%LOAD/℃
Maximum safe overload	120%R.C.
Ultimate overload	150%R.C.
Cable type	φ1.6-φ2.5, 4-wire, PVC, braid shield
Cable length	1m
Construction	Aluminum
Weight (approx.)	5g

※.The interference is interference compensated value.
Note) Please connect to Dynamic strain amplifier.

Cable color code

Item (φ1.6)	Color
Excitation＋/F	Red
Excitation－/F	White
Excitation＋/M	Green
Excitation－/M	Blue
Shield	

Item (φ2.5)	Color
Fx・Mx : Output＋	Red
Fx・Mx : Output－	White
Fy・My : Output＋	Green
Fy・My : Output－	Blue
Fz・Mz : Output＋	Yellow
Fz・Mz : Output－	Black
Shield	

TPC10-06-2023