6-component Force Transducer

6D-50N-50N-80N-TMI

- Capacities : Fx,Fy:50N Fz:80N Mx,My,Mz:0.5N･m
- Custum made available
- **6-component Force Transducer**
  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.



Model

Fx-Rated Capacity	Fy-Rated Capacity	Fz-Rated Capacity	
6D-	50N	- 50N	- 80N - TMI

Note) Custom made abailable

Cable color code

Item	Color
F-line EXC+	Pink (Red wire1)
F-line EXC−	Pink (Black wire1)
Fx : SIG+	Orage (Red wire1)
Fx : SIG−	Orage (Black wire1)
Fy : SIG+	White (Red wire1)
Fy : SIG−	White (Black wire1)
Fz : SIG+	Gray (Red wire1)
Fz : SIG−	Gray (Black wire1)

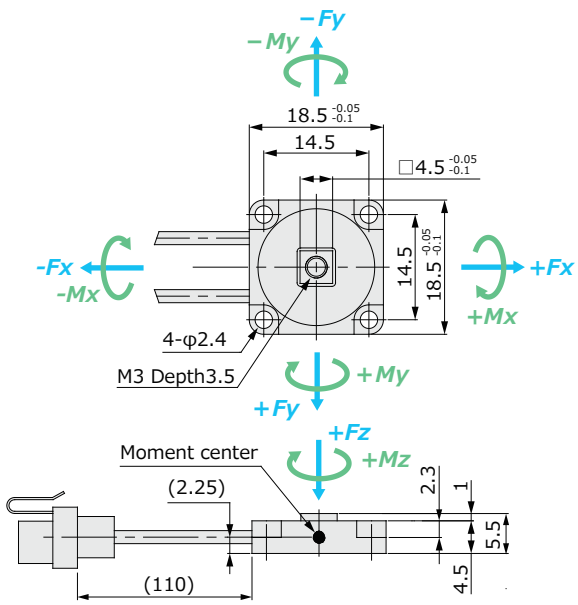
Item	Color
M-line EXC+	Yellow (Red wire1)
M-line EXC−	Yellow (Black wire1)
Mx : SIG+	Orange (Red wire2)
Mx : SIG−	Orange (Black wire2)
My : SIG+	White (Red wire2)
My : SIG−	White (Black wire2)
Mz : SIG+	Gray (Red wire2)
Mz : SIG−	Gray (Black wire2)
Shield	

Specifications

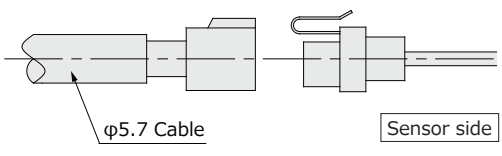
Rated capacity	Fx,Fy : 50N Fz : 80N Mx,My,Mz : 0.5N･m
Rated output (approx.)	0.3mV/V～0.6mV/V
Nonlinearity	±0.5%R.O.
Hysteresis	±0.5%R.O.
Interference ※	±3%R.O.
Temperature effect on zero	±0.05%R.O./℃
Temperature effect on output	±0.05%LOAD/℃
Temperature range, compensated	0℃～+60℃
Temperature range, safe	−10℃～+70℃
Maximum safe overload	120%R.C.
Ultimate overload	150%R.C.
Excitation	2V
Input impedance	120Ω～240Ω
Output impedance	120Ω～240Ω
Insulation resistance	>1000MΩ
Cable type	φ5.7, 16-wire AWG28
Cable length	2m
Construction	Stainless steel
Weight (approx.)	6g
Natural frequency	21kHz

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

Outline dimensions (mm)



Cable connecting parts



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