

Built in amplifiers 6-component Force Transducer

6DS

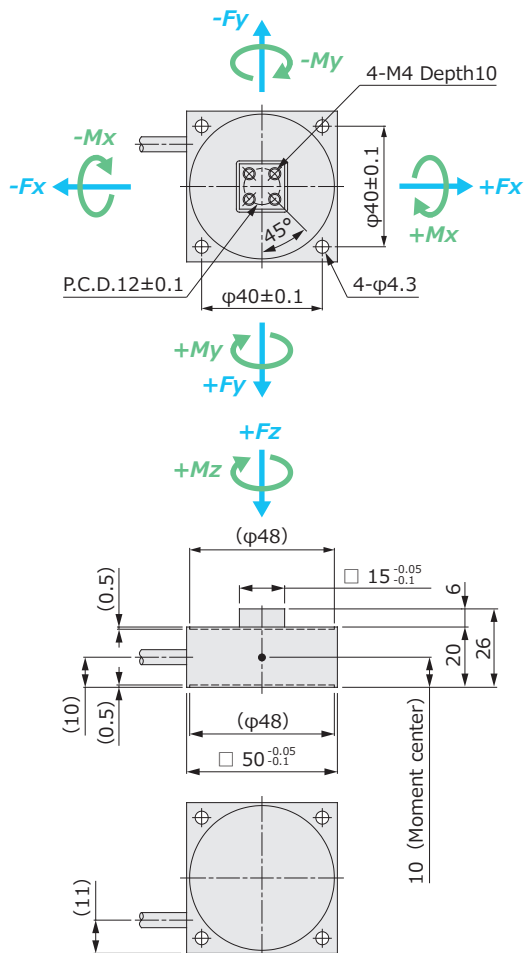
- Capacities : F_x, F_y : 300N
 F_z : 1kN
 M_x, M_y : 15N·m
 M_z : 10N·m

- Built in amplifiers
- Custom made available
- 6-component Force Transducer**

Enables simultaneous measurement of 3 components of force (F_x, F_y, F_z) in 3 axial directions orthogonal to the transducer and 3 moments (M_x, M_y, M_z) around the axes.



Outline dimensions (mm)

**Custom made available**

- Rated capacity
- Outline

Specifications

Rated capacity	F_x, F_y : 300N F_z : 1kN M_x, M_y : 15N·m M_z : 10N·m
Rated output (approx.)	0.5V ~ +4.5V (Center : +2.5V)
Nonlinearity	0.1%R.O. ~ 0.5%R.O.
Hysteresis	0.1%R.O. ~ 0.5%R.O.
Interference ※	2%R.O. ~ 5%R.O.
Temperature effect on zero	$\pm 0.05\%$ R.O./°C
Temperature effect on output	$\pm 0.05\%$ LOAD/°C
Excitation	8V ~ 15V
Frequency response	1.6kHz
Maximum safe overload	100%R.C.
Ultimate overload	150%R.C.
Temperature range, compensated	0°C ~ +50°C
Temperature range, safe	-10°C ~ +60°C
Cable type	$\phi 5$, 8-wire
Cable length	2m
Construction	Aluminum
Weight (approx.)	100g

※.The interference is interference compensated value.

Cable color code

Item	Color
Power +	Pink (Red wire)
GND	Pink (Black wire)
F_x	Yellow (Red wire)
F_y	Orange (Red wire)
F_z	White (Red wire)
M_x	Yellow (Black wire)
M_y	Orange (Black wire)
M_z	White (Black wire)
Shield	