3D FORCE SENSOR

Force in 3 dimensions(X, Y, Z) can be measured at the same time!!
Safe overload rating of 500%
- the three-axis force sensor with the high sensitivity and rigidity!



 $\pm 5V$ output at the rated capacity for each direction: Fx, Fy, Fz (three axis).

As output signals for each direction is adjusted before shipping out, you can get calibrated(scaled) output by just connecting sensor and DC24V power supply to FS300.

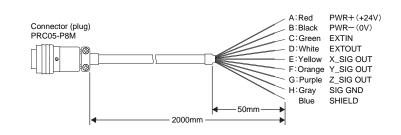
Specifications

Model	Sensor : UPP-100NX3, Amplifier : FS300
Rated capacity	Fx, Fy, Fz: ±100N
Power supply voltage	DC24V±15%
Consumption current	150mA or less
Load signal output	Fx, Fy, Fz: ±5V DC
Load resistance	2kΩ or more
Response	2kHz
I/O signal	Input: Auto zero command Output: Auto zero response
Safe overload	500%FS
Non-linearity	0.5%FS
Hysteresis	0.5%FS
Repeatability	0.5%FS
Compensated temperature range	0~+40°C
Safe temperature range	−10~+50°C
Temperature effect on zero	0.5%FS/°C
Temperature effect on span	0.05%FS/°C
Sensor material	Aluminum alloy
Weight	Sensor : Approx. 70g, Amplifier : Approx. 180g (Excluding the cable)

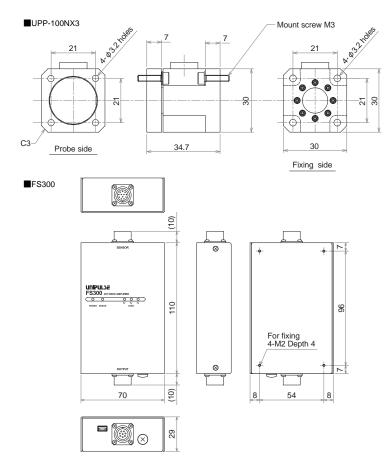
^{*} Above specifications are achieved when the sensor(UPP-100NX3) is connected with the dedicated amplifier(FS300).

3D FORCE SENSOR

UPP-100NX3



External dimension



Unipulse Corporation International Sales Department