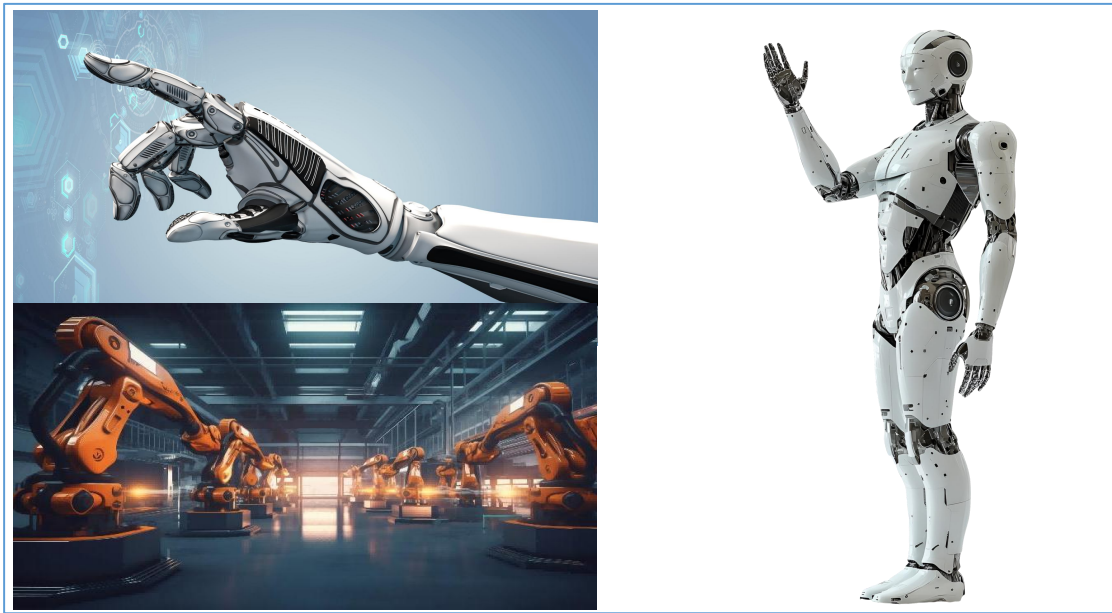




**BW-D65-B Series
Six-Axis Force Sensor (Acceptance
Testing for Humanoid Robots and
Robotic Arms)**

Technical Manual



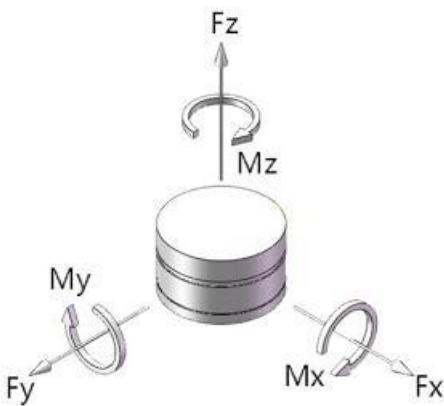
Feature

- It can be used for force detection of the wrist of humanoid robots
- Adopting the high-precision resistance strain gauge principle
- High-speed sampling digital communication (external)
- High precision and strong anti-eccentric load capability
- Customized specifications accepted
- Aerial work truck
- Flange installation

Product Range

Measuring range (F.S)	F_X	F_Y	F_Z	M	M_Y	M_Z
	200N	200N	300N	4N·m	4N·m	4N·m
	300N	300N	500N	8N·m	8N·m	8N·m
	400N	400N	700N	10N·m	10N·m	10N·m
	700N	700N	1000N	12N·m	12N·m	12N·m

Force diagram

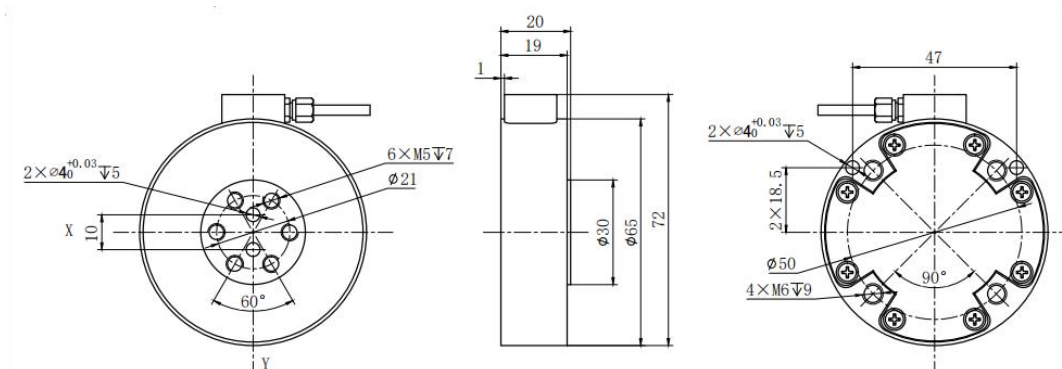


Technical

Signal	RS485	sampling frequency	1000HZ
Nonlinear	$\pm 0.5\% \text{F.S}$	Temperature Effect On Zero	$\pm 0.1\% \text{F.S}/10^{\circ}\text{C}$
Inter axis coupling	$\pm 2\% \text{F.S}$	Temperature Effect On Output	$\pm 0.1\% \text{F.S}/10^{\circ}\text{C}$
repeatability	$\pm 0.1\% \text{F.S}$	Operating temperature range	$-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
creep	$\pm 0.1\% \text{F.S}$	Safe Overload	150%F.S
Sealing grade	IP64	Ultimate Overload	200%F.S
material	stainless steel	Recommended excitation voltage	9~30V DC
insulation resistance	$\geq 5000 \text{M}\Omega$	FLEXIBLE CABLE	3m



Product package size



BW-D65-B Series

**Six-Axis Force Sensor (Acceptance Testing
for Humanoid Robots and Robotic Arms)**

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