

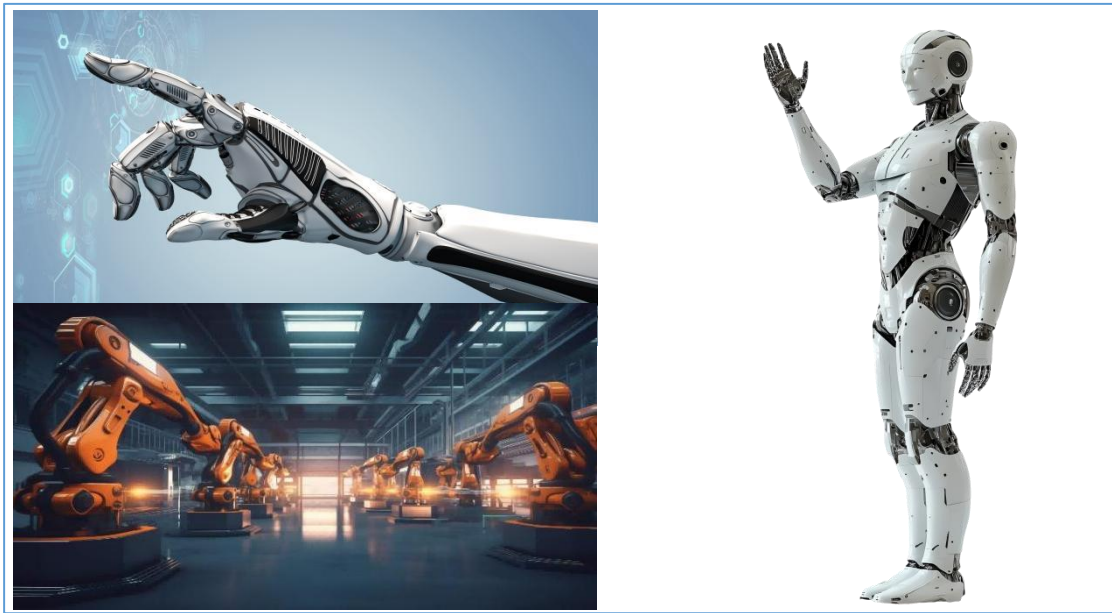


BW-B80-B Series

**Six-axis force sensor (force detection
at the end of collaborative robots)**

Technical Manual

V3.0



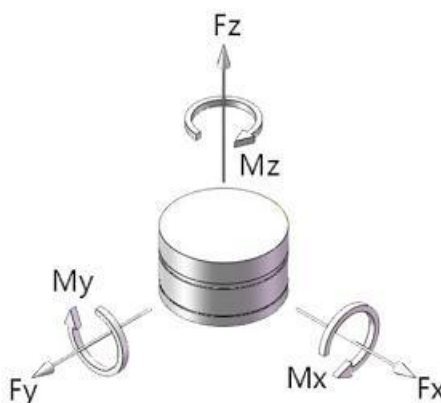
Feature

- **Can be used for force detection of industrial robotic arms**
- **Using 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_x	M_y	M_z
	50N	50N	50N	2N·m	2N·m	2N·m
	100N	100N	100N	4N·m	4N·m	4N·m
	200N	200N	200N	8N·m	8N·m	8N·m
	300N	300N	300N	10N·m	10N·m	10N·m

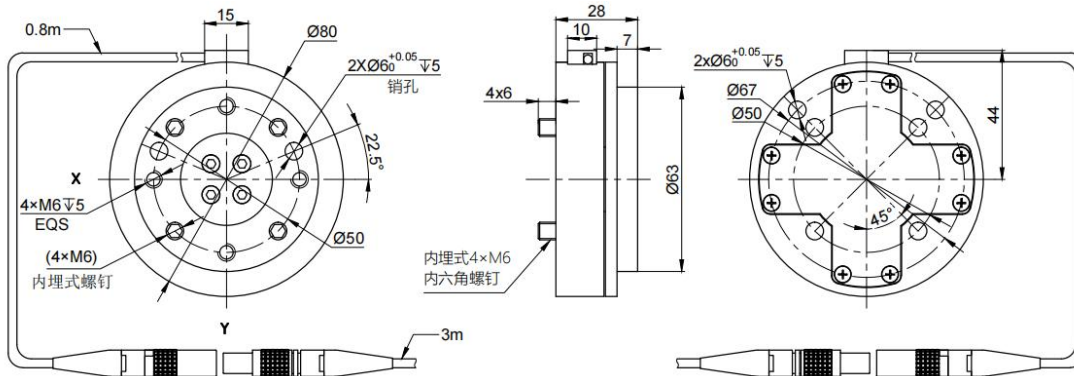
Force diagram



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	$-10 \sim +40^\circ\text{C}$
creep	$\pm 0.1\% \text{F.S}$	Safe Overload	150%F.S
Sealing grade	IP64	Ultimate Overload	300%F.S
material	aluminum alloy	Recommended excitation voltage	9~30V DC
insulation resistance	$\geq 5000 \text{M}\Omega$	FLEXIBLE CABLE	3m



Product package size



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