

Spread technology

Sense the future




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 13480777594

Robot sensor

Specialized in the production of sensors

To provide you with exclusive weighing force measurement custom program

Brand Culture

I have three goals

My goal is that one day my suppliers will be proud of choosing to cooperate with Fibos.

My goal is that one day my customers will be proud of choosing to use Fibos products.

My goal is that one day my employees will be proud of choosing to work at Fibos.

"Three Positive" Beliefs

- ◆ Positive Mind - Maintain a positive attitude and be realistic.
- ◆ Positive Thought - All employees practice loyal qualities.
- ◆ Positive Action - Possess good morals, be the best version of yourself in the present, and move towards the right direction.

"Three Truths" Inspection

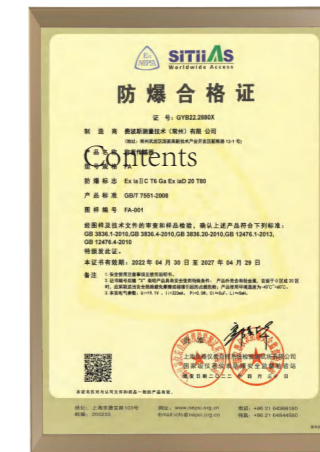
- ◆ Truthful - Be sincere in dealing with people and tell the truth.
- ◆ Realistic - Do things that are practical and realistic, without deception. It is a guarantee for a person to stand and for business success.
- ◆ Authentic - Put in the effort and work hard without excuses. Regardless of the outcome, you can face it calmly and accept it.

Fibos Measurement Technology (Changzhou) Co., Ltd. is a professional high-tech company committed to the research and development of force sensors, the sale of sensor solutions, and the technical support for a one-stop service. After years of understanding and recognition of sensors and automation control systems, the company's sensor control system department has a highly professional team to provide perfect pre-sales and after-sales services to domestic and foreign customers!

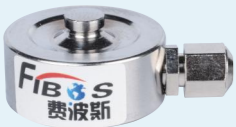
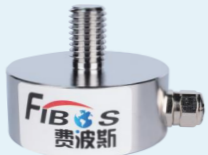





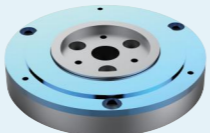

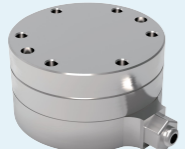

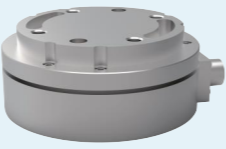
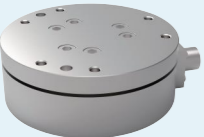
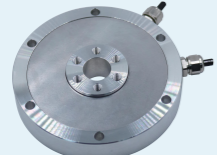

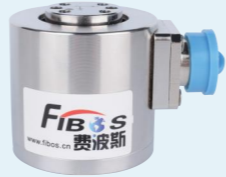
The main products are micro force sensors, micro tension and compression force sensors, micro pressure sensors, small pressure sensors, micro weighing sensors, small weighing sensors, small force sensors, small size force sensors, small volume tension sensors, and intelligent sensors, which are equipped with display and control instruments, as well as undertake pressure and weighing automatic control systems that match them.

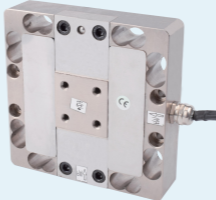
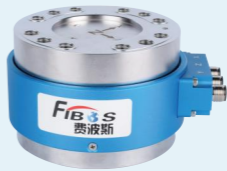


"Winning customer word-of-mouth, continuous cooperation and development" has always been our pursuit. Fibos Measurement Technology (Changzhou) Co., Ltd. is willing to work hand in hand with you for common development using our rich experience, superb technology, high-quality products, highly competitive prices, and sincere services."

★ Fibos has always been committed to improving product functionality. In order to provide better products, the modified product specifications, appearance, and other contents will not be separately notified. Please confirm the latest content when placing an order.



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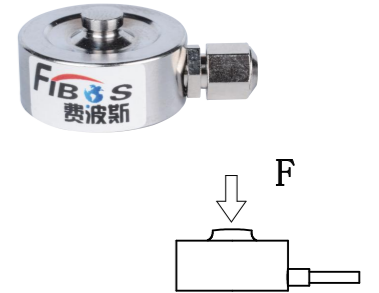
The uniaxial force sensor independently produced by the company includes single-pressure type, tension-compression bidirectional type, static/dynamic torque type, etc. Which can be applied to the front end of robot arms to measure gripping force and the mass of grasped objects. Currently, our main products have a wide range of measuring ranges and dimensions, with a reasonable structure and high accuracy, suitable for different environmental conditions.

(The products shown in this brochure are part of our main products and various non-standard customization is available as well.)

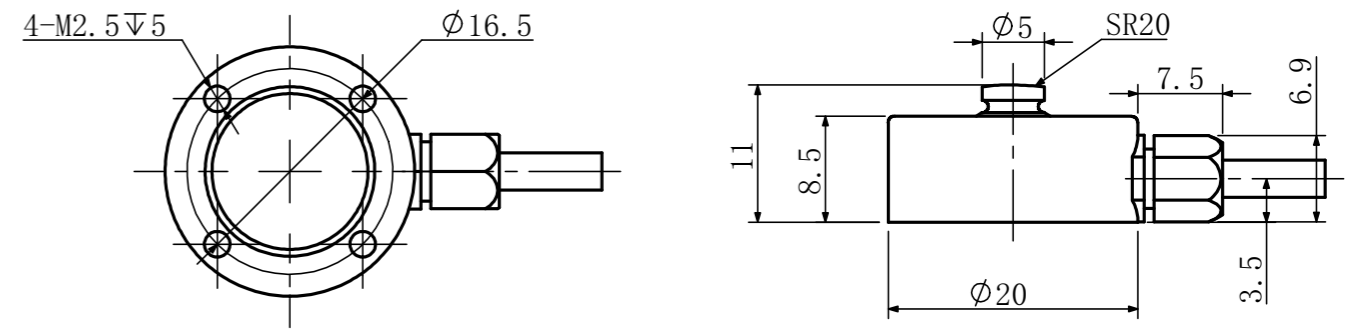
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	50,100,200,500N 1,2,5,10,20kN	Temp. effect on zero	0.05%F.S./10°C
Sensitivity	1.5±20% mV/V	Insulation Resistance	≥5000MΩ/100V(DC)
Zero Balance	±2% mV/V	Recommended Excitation	5~12V
Creep	≤0.1%F.S.	Max Excitation	15V
Non-linearity	≤0.5%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.2%F.S.	Operating Temp Range	-20~80°C
Repeatability	≤0.1%F.S.	Safe Overload	150%F.S.
Input Impedance	800~1100Ω	Ultimate Overload	200%F.S.
Output Impedance	800~1100Ω	Cable Size	φ2/3X3m
Temp. effect on output	0.05%F.S./10°C	Weight	0.03kg
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

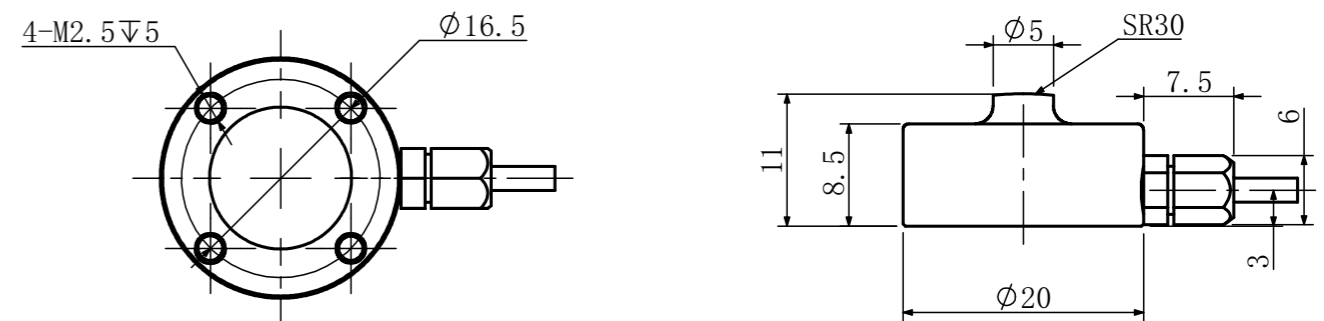
FA107



• Mounting Dimensions



50~10000N/φ3 Exit line

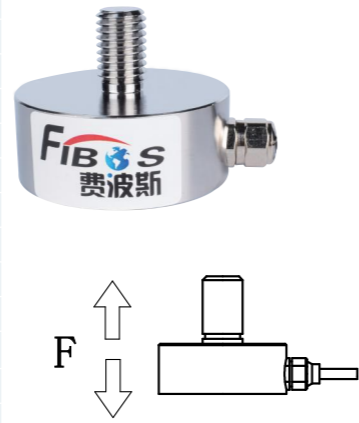


20000N/φ2 Exit line

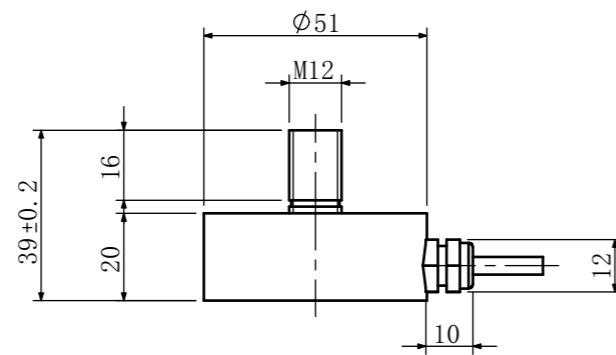
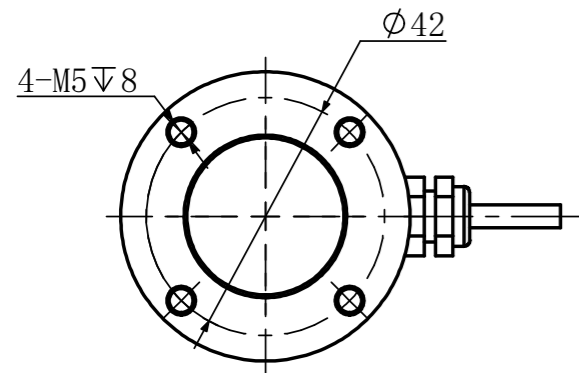
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	0.1,0.2,0.5,1,2,3,5t	Temp. effect on zero	0.05%F.S./10°C
Sensitivity	1.5±20% mV/V	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Zero Balance	±2% mV/V	Recommended Excitation	5~12V
Creep	≤0.1%F.S.	Max Excitation	15V
Non-linearity	≤0.5%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.2%F.S.	Operating Temp Range	-20~80°C
Repeatability	≤0.1%F.S.	Safe Overload	150%F.S.
Input Impedance	780±20 Ω	Ultimate Overload	200%F.S.
Output Impedance	720±5 Ω	Cable Size	$\phi 4 \times 3m$
Temp. effect on output	0.05%F.S./10°C	Weight	0.4kg
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

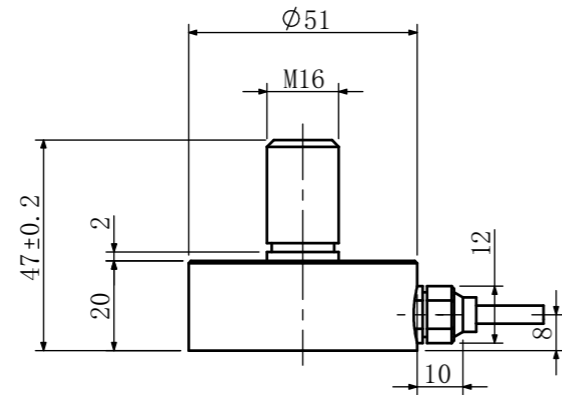
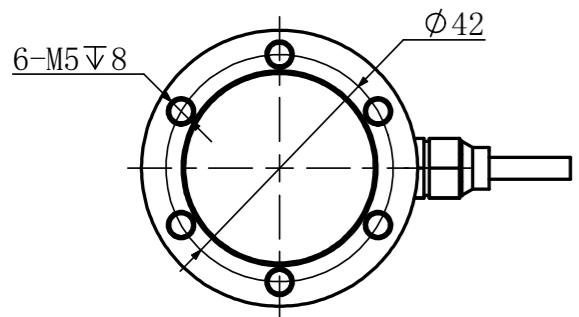
FA114B



• Mounting Dimensions



0.1,0.2,0.5,1,2,3t

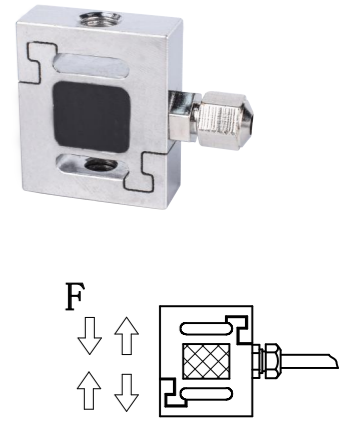


5t

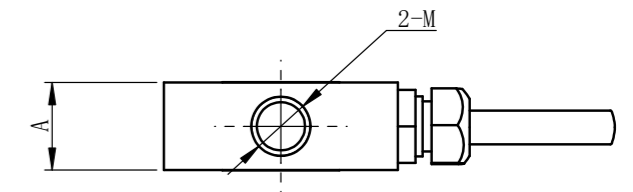
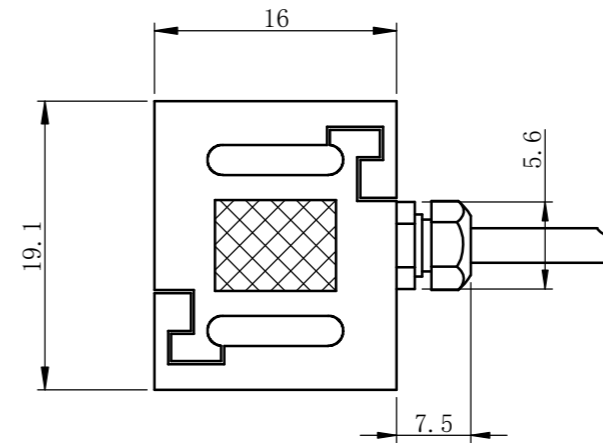
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	10,20,50,100,200,500,1000N	Temp. effect on zero	0.05%F.S./10°C
Sensitivity	2.0±10% mV/V	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Zero Balance	±0.02 mV/V	Recommended Excitation	5V
Creep	≤0.05%F.S.	Max Excitation	15V
Non-linearity	≤0.05%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.05%F.S.	Operating Temp Range	-20~80°C
Repeatability	≤0.05%F.S.	Safe Overload	150%F.S.
Input Impedance	650/350±5 Ω	Ultimate Overload	200%F.S.
Output Impedance	650/350±5 Ω	Cable Size	$\phi 2 \times 3000mm$
Temp. effect on output	0.05%F.S./10°C	Weight	0.1kg
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

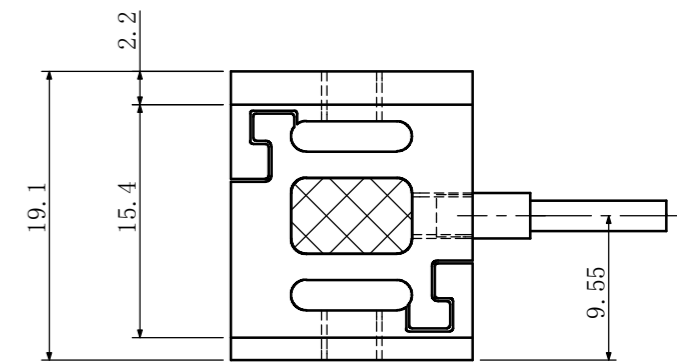
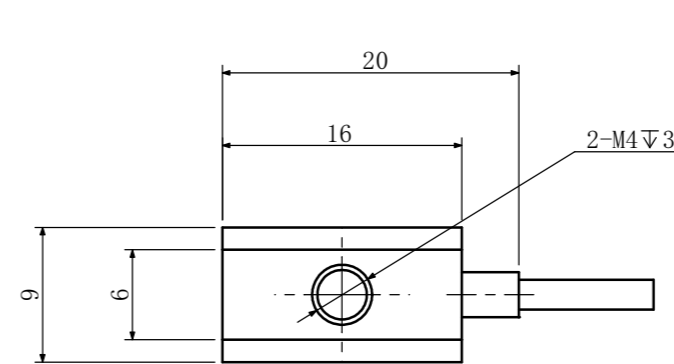
FA302



• Mounting Dimensions



Capacity (N)	A	M
10, 20	5	M3
50, 100, 200, 300, 500	6	M4

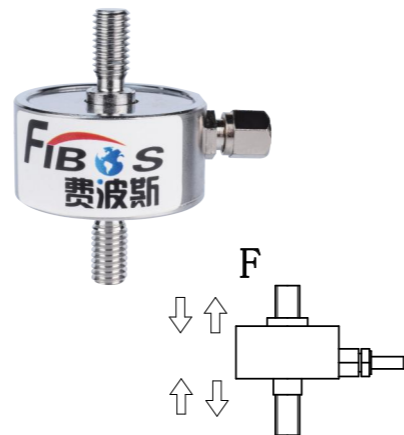


1000N

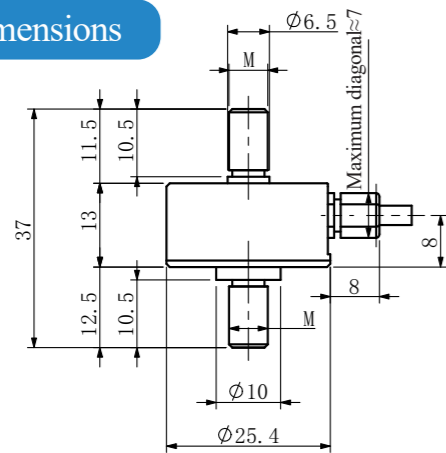
FA203

• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	50,100,200,500,1000,2000N	Temp. effect on zero	0.05%F.S./10°C
Sensitivity	2.0±10% mV/V	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Zero Balance	±0.05 mV/V	Recommended Excitation	5~12V
Creep	≤0.1%F.S.	Max Excitation	15V
Non-linearity	≤0.1%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.1%F.S.	Operating Temp Range	-20~80°C
Repeatability	≤0.1%F.S.	Safe Overload	150%F.S.
Input Impedance	700±5 Ω	Ultimate Overload	200%F.S.
Output Impedance	700±5 Ω	Cable Size	φ3x3000mm
Temp. effect on output	0.05%F.S./10°C	Weight	0.3kg
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

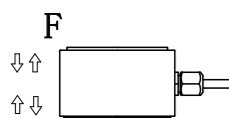


• Mounting Dimensions



Capacity (N)	M
50~500	M5X0.8
1000, 2000	M6X1

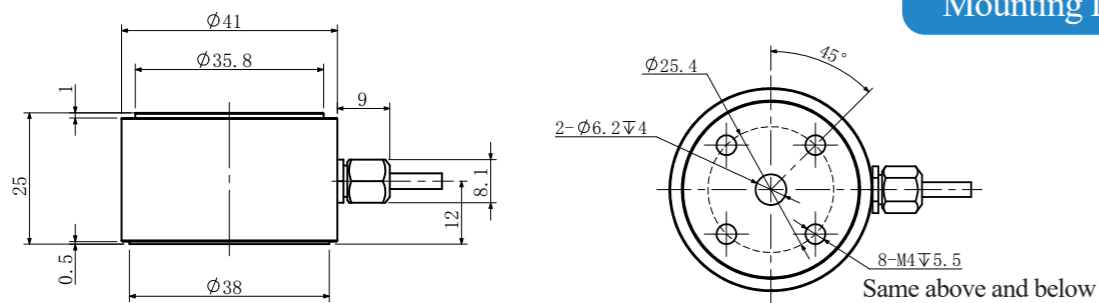
FA406



• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	0.1,0.2,0.5,1,2,5,10,20kN	Temp. effect on zero	0.05%F.S./10°C
Sensitivity	2.0±10% mV/V	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Zero Balance	±0.05 mV/V	Recommended Excitation	5~15V
Creep	≤0.1%F.S.	Max Excitation	20V
Non-linearity	≤0.1%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.1%F.S.	Operating Temp Range	-20~80°C
Repeatability	≤0.05%F.S.	Safe Overload	150%F.S.
Input Impedance	385±10 Ω	Ultimate Overload	200%F.S.
Output Impedance	350±5 Ω	Cable Size	φ3x3000mm
Temp. effect on output	0.05%F.S./10°C	Weight	0.3kg
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

• Mounting Dimensions

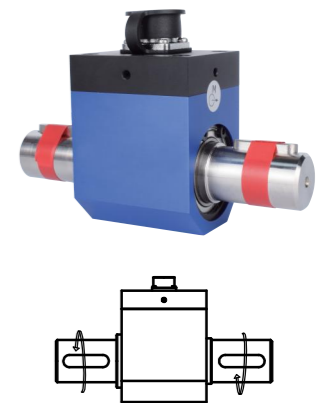


* Due to the low height of the sensor, the screwing depth must not exceed 5mm.

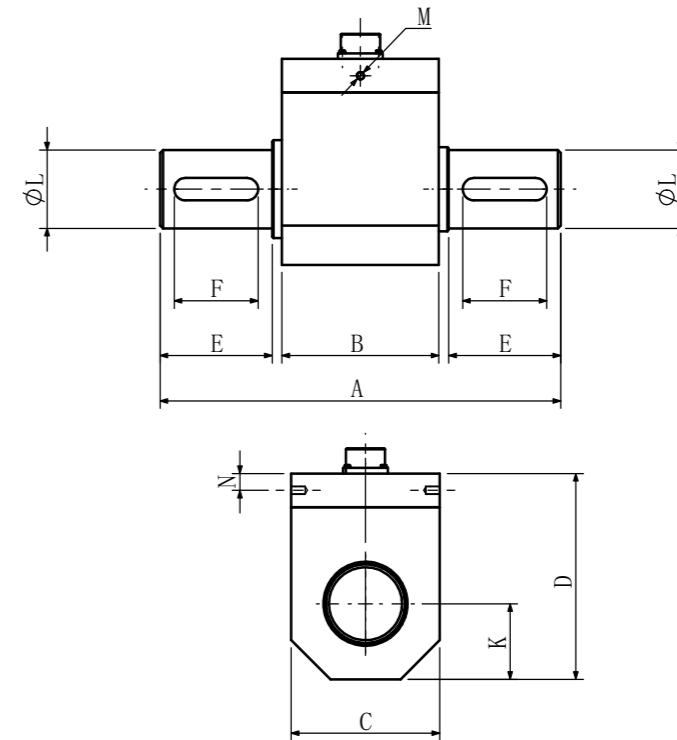
FA604

• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	10,20,30,50,100,200,300,500,1000,2000N.m	Temp. effect on zero	0.02%F.S./10°C
Sensitivity	1.0~1.5% mV/V	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Zero Balance	±0.01 mV/V	Recommended Excitation	12V
Creep	≤0.1%F.S.	Max Excitation	15V
Non-linearity	≤0.2%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.2%F.S.	Operating Temp Range	-20~60°C
Repeatability	≤0.1%F.S.	Safe Overload	120%F.S.
Input Impedance	350/700±5 Ω	Ultimate Overload	150%F.S.
Output Impedance	350/700±5 Ω	Cable Size	3m
Temp. effect on output	0.02%F.S./10°C	IP Grade	IP66
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		



• Mounting Dimensions

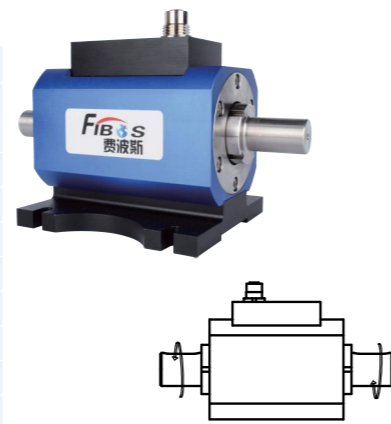


Cap (Nm)	A	φL	B	C	D	E	F	K	N	M	H
10~100	108	18	44	38	58	30	22	19	6	3-M3	6
200~500	143	28	56	53	73.5	40	30	27	6	2-M3	8
1000~2000	221	50	97	90	125	60	55	45	33	4-M4	16

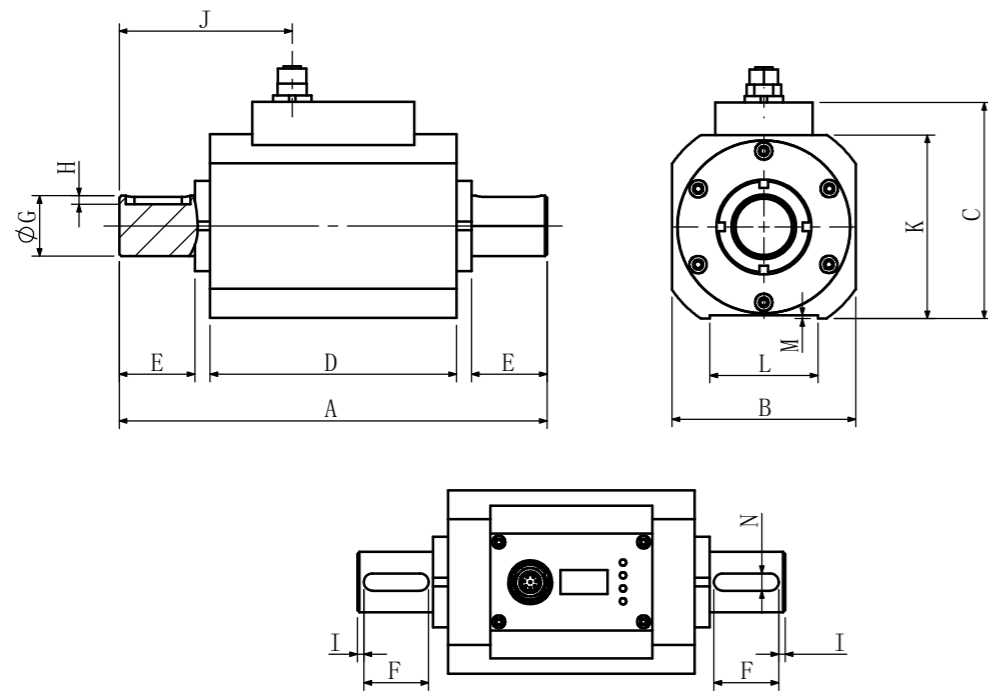
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	5~5000N.m	Recommended Excitation	±15VDC(frequency signal) 24VDC(voltage/current signal)
Output signal	5~15Khz/4~20mA/ 0~5or10V	Operating Temp Range	-10~60°C
Rotational speed range	0~8000r/m	Safe Overload	150%F.S.
Zero Balance	±2% mV/V	Ultimate Overload	200%F.S.
Non-linearity	≤3%F.S.	Cable Size	3m
Hysteresis	≤5%F.S.	IP Grade	IP66
Repeatability	≤2%F.S.	Relative humidity	0~90%RH
Insulation resistance	≥2000M Ω /100V(DC)		
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

FA606

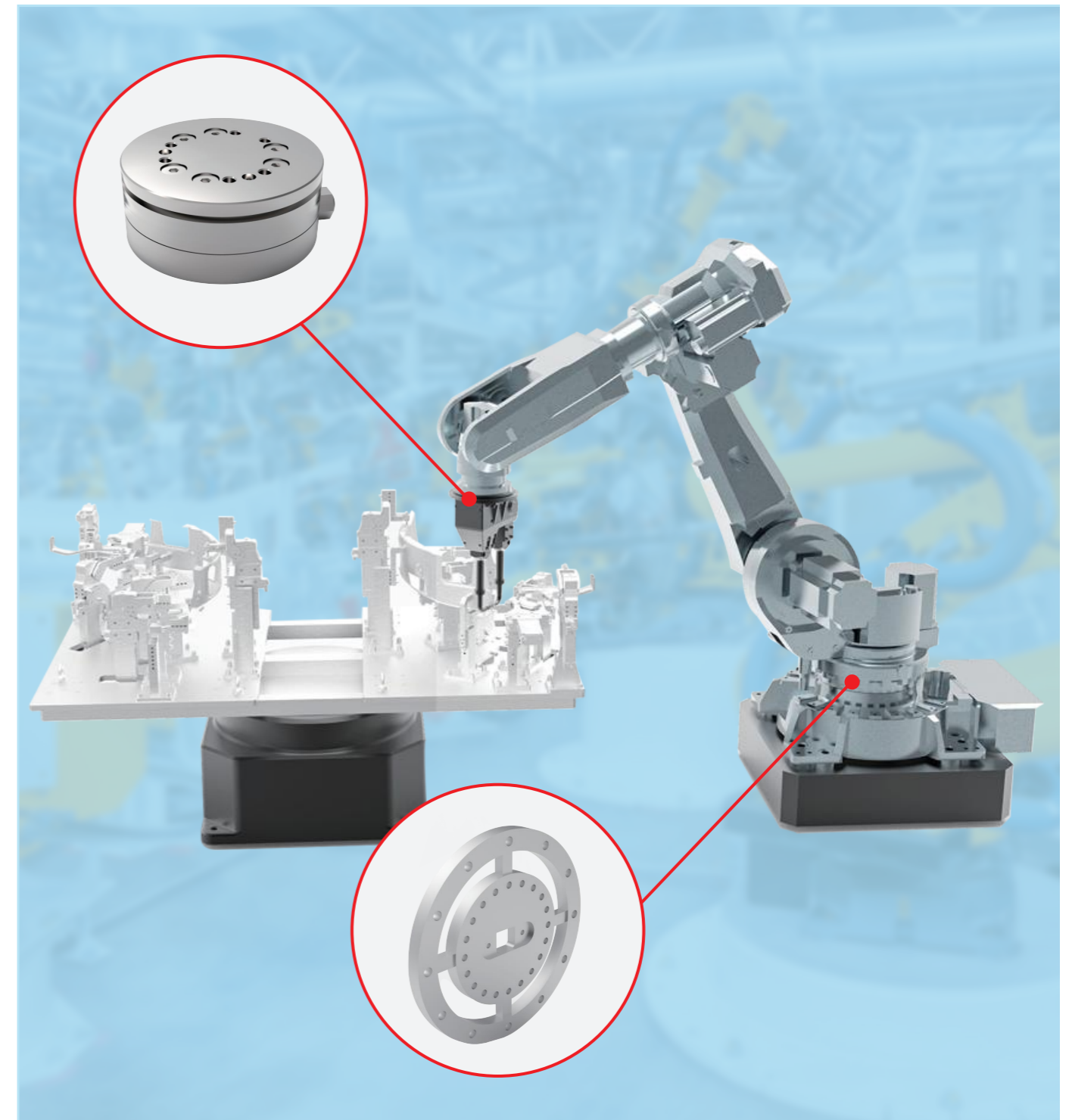


• Mounting Dimensions



BASE AND SCREEN ARE OPTIONAL

Cap N.m	A	B	C	D	E	F	G	H	I	J	K	L	M	N
5-100	185	70	85	111	30	24	18	3.5	3.5	73.5	70	36	1.5	6
200-500	198	85	100	114	35	30	28	4	3	80	85	50	1.5	8
1000-2000	288	125	135	134	70	60	45	5.5	5	125	125	70	1.5	14
3000-5000	355	160	170	141	100	93	75	7.5	4	158.5	160	100	2.5	20

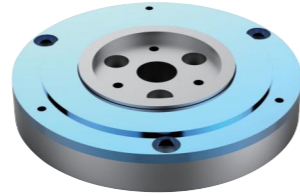


Our company's self-produced robot joint torque sensors have been successfully applied in the field of collaborative robots. The sensor adopts the principle of resistance strain, with good rigidity, fast response frequency, high temperature performance and accuracy, and diverse output signals. Compared with traditional six-axis force sensors, it has more advantages in comprehensive performance. (The products shown in this brochure are part of our main products and various non-standard customization is available as well.)

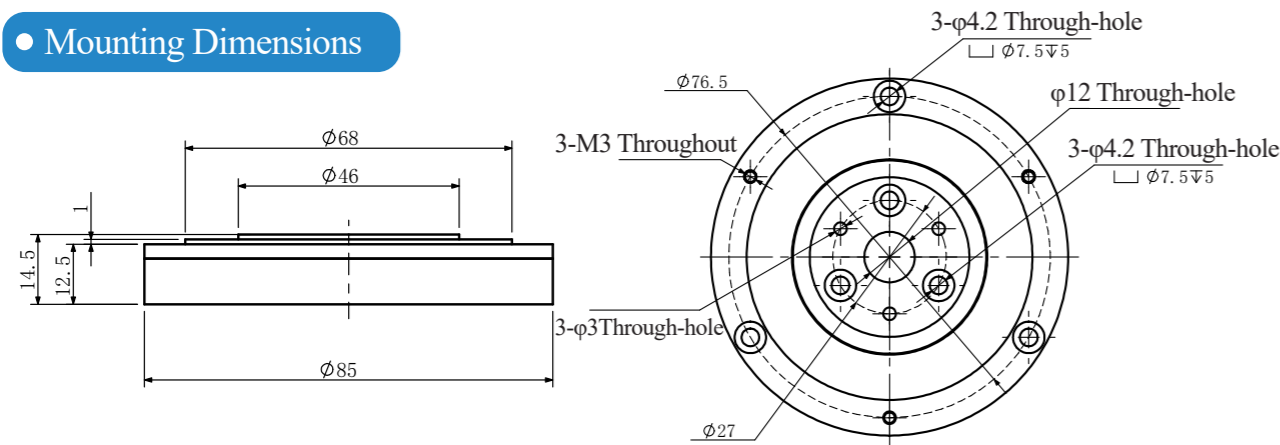
FA630

Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	15.5Nm	Temp. effect on output	0.05%F.S./10°C
Sensitivity	0.4±10% _{mV/V}	Temp. effect on zero	0.05%F.S./10°C
Zero Balance	±1%F.S.	Insulation Resistance	≥5000MΩ/100V(DC)
Creep	0.1%F.S.	Recommended Excitation	5~10V
Non-linearity	0.5%F.S.	Max Excitation	15V
Hysteresis	0.5%F.S.	Compensated Temp Range	-10~60°C
Repeatability	0.04%F.S.	Operating Temp Range	-20~80°C
Input Impedance	780±20Ω	Safe Overload	150%F.S.
Output Impedance	700±10Ω	Ultimate Overload	200%F.S.
		Cable Size	Aviation plug



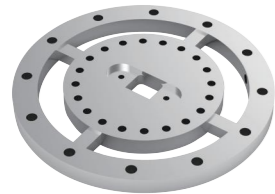
Mounting Dimensions



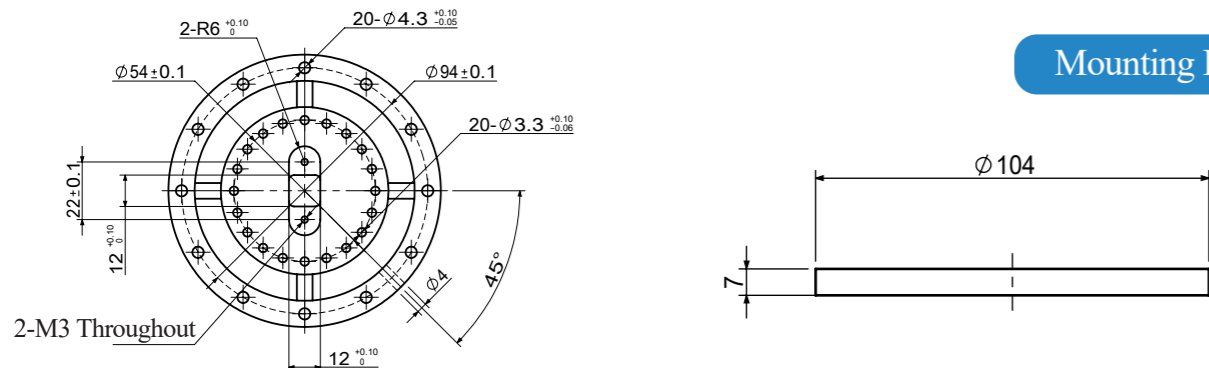
FA631

Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	50Nm	Temp. effect on output	0.05%F.S./10°C
Sensitivity	0.3±10% _{mV/V}	Temp. effect on zero	0.05%F.S./10°C
Zero Balance	±1%F.S.	Insulation Resistance	≥5000MΩ/100V(DC)
Creep	0.1%F.S.	Recommended Excitation	5~10V
Non-linearity	0.3%F.S.	Max Excitation	15V
Hysteresis	0.3%F.S.	Compensated Temp Range	-10~60°C
Repeatability	0.05%F.S.	Operating Temp Range	-20~80°C
Input Impedance	750±20Ω	Safe Overload	150%F.S.
Output Impedance	700±10Ω	Ultimate Overload	200%F.S.
		Cable Size	φ3x3000mm



Mounting Dimensions

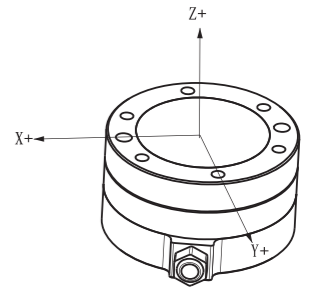


FA-KWR36 6-axis force sensor

Applied to collaborative robots, medical robots, service robots

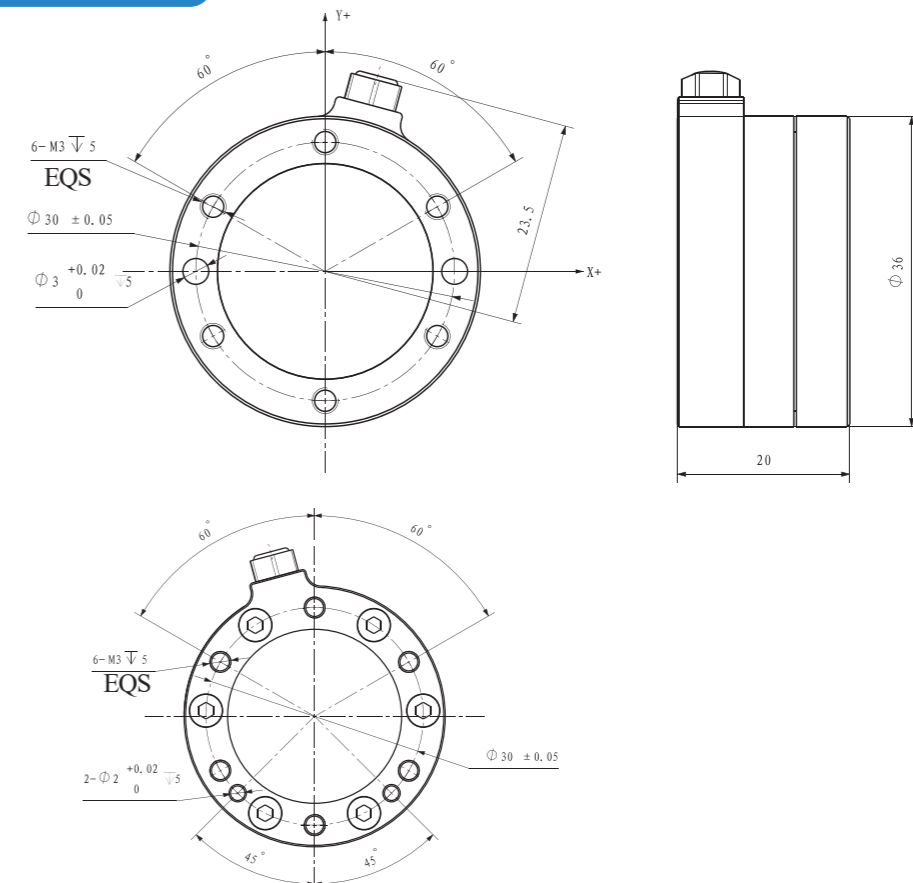
Technical Specifications

Specifications	model	FA-KWR36A	FA-KWR36B	FA-KWR36C
Fx, Fy	[N]	30	50	80
Fz	[N]	30	50	80
Mx, My	[Nm]	1.5	2	3
Mz	[Nm]	1.5	2	3
Diameter	[mm]	36	30	30
Height	[mm]	20	20	20
Material		Aluminium alloy	Aluminium alloy	Aluminium alloy
Overload	[%FS]	300	300	300
Accuracy	[%FS]	0.1	0.1	0.1
Weight	[kg]	0.04	0.05	0.06
Supply voltage	[VDC]	9-24	9-24	9-24
Working temp.	[°C]	0-80	0-80	0-80
Sampling resolution	[Bit]	24	24	24
Sampling frequency	[Hz]	1000	1000	1000
IP Grade		IP64	IP64	IP64
Communication Mode		RS422/RS485/MODBUS/CAN/EtherCAT/EtherNET/USB/analog		



*Some parameters are supporting data acquisition equipment parameters

Mounting Dimensions



FA-KWR46 6-axis force sensor

Applied to collaborative robots, medical robots, service robots

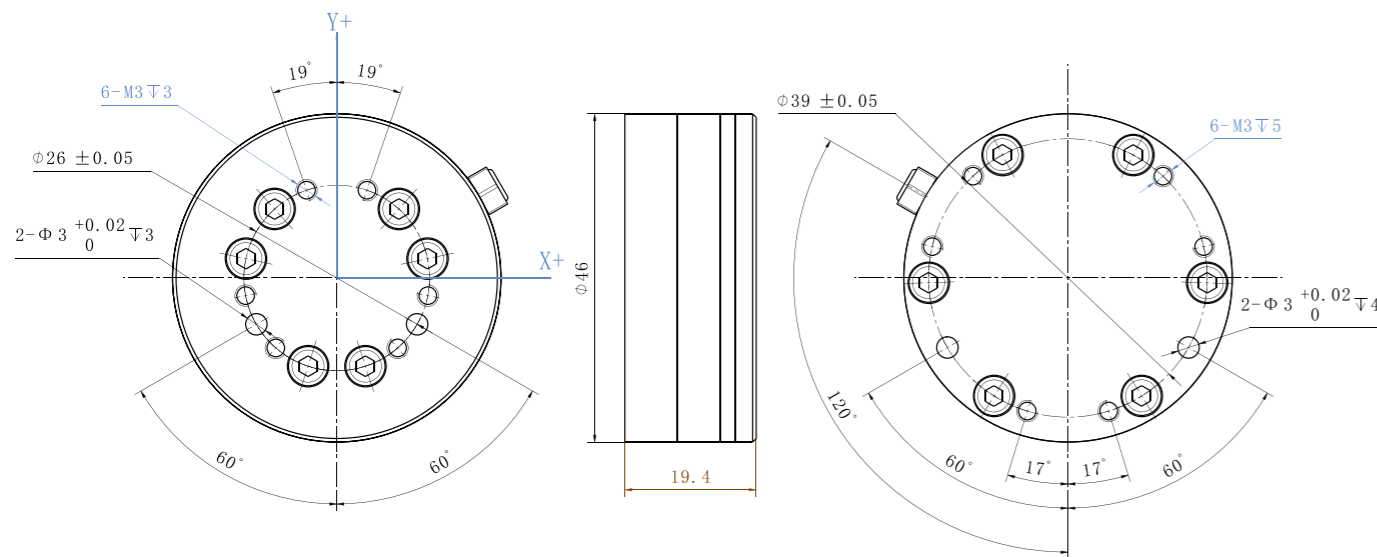
Technical Specifications

Specifications	model	FA-KWR46A	FA-KWR46B	FA-KWR46C
Fx, Fy	[N]	50	150	200
Fz	[N]	50	150	200
Mx, My	[Nm]	2	5	6.5
Mz	[Nm]	2	5	6.5
Diameter	[mm]	46	46	46
Height	[mm]	19.4	19.4	19.4
Material		Aluminium alloy	Aluminium alloy	Aluminium alloy
Overload	[%FS]	300	300	300
Accuracy	[%FS]	0.1	0.1	0.1
Weight	[kg]	0.06	0.05	0.07
Supply voltage	[VDC]	9-24	9-24	9-24
Working temp.	[°C]	0-80	0-80	0-80
Sampling resolution	[Bit]	24	24	24
Sampling frequency	[Hz]	1000	1000	1000
IP Grade		IP64	IP64	IP64
Communication Mode		RS422/RS485/MODBUS/CAN/EtherCAT/EtherNET/USB/analog		



**Some parameters are supporting data acquisition equipment parameters

Mounting Dimensions



FA-KWR75 6-axis force sensor

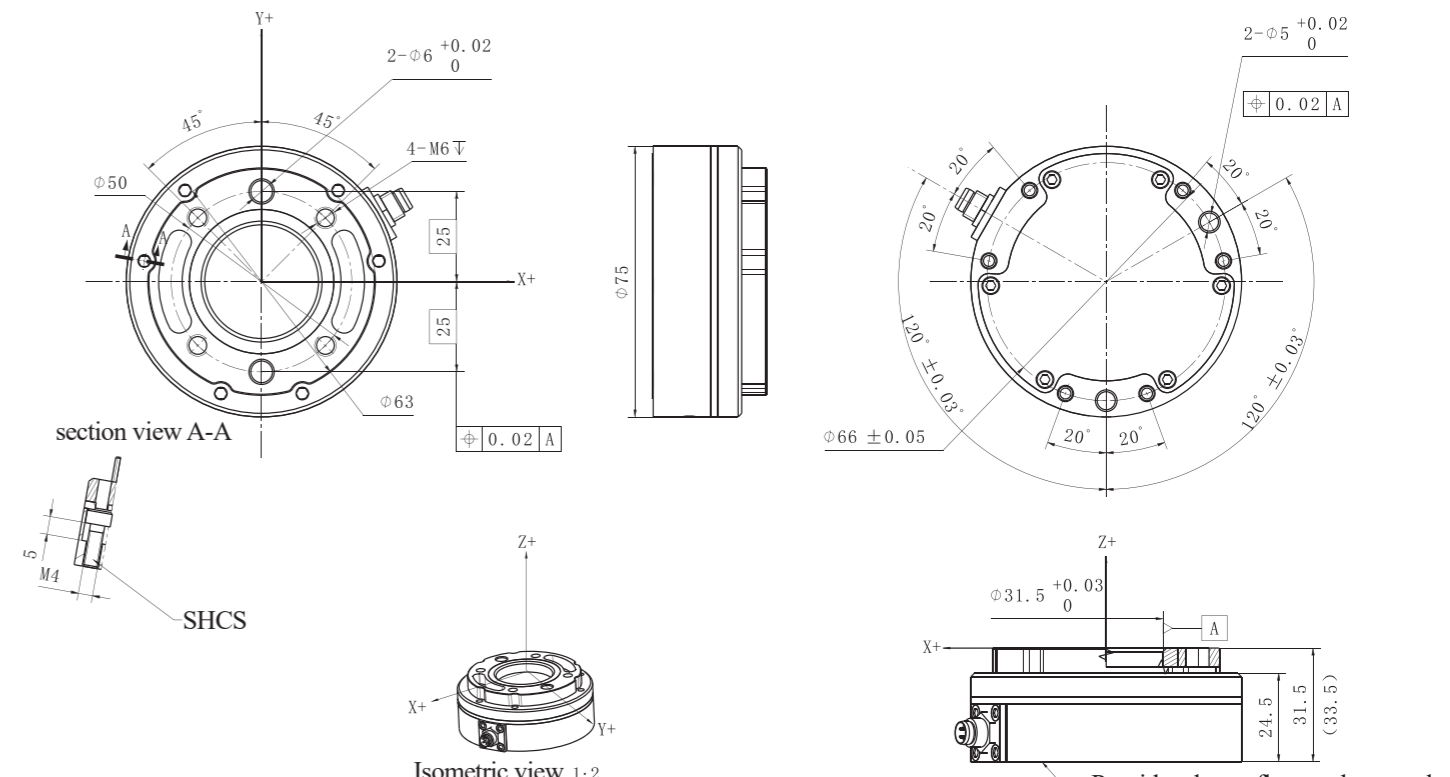
Applied to collaborative robots, medical robots, service robots

Technical Specifications

Specifications	model	FA-KWR75A	FA-KWR75B	FA-KWR75C	FA-KWR75D	FA-KWR75E
Fx, Fy	[N]	50	200	400	500	30
Fz	[N]	50	200	500	700	30
Mx, My	[Nm]	2	8	12	18	1.5
Mz	[Nm]	2	8	12	18	1.5
Diameter	[mm]	75	75	75	75	75
Height	[mm]	31.5	31.5	33.5	33.5	31.5
Material		Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy
Overload	[%FS]	300	300	300	300	300
Accuracy	[%FS]	0.1	0.1	0.1	0.1	0.1
Weight	[kg]	0.26	0.28	0.36	0.36	0.26
Supply voltage	[VDC]	9-24	9-24	9-24	9-24	9-24
Working temp.	[°C]	0-80	0-80	0-80	0-80	0-80
Sampling resolution	[Bit]	24	24	24	24	24
Sampling frequency	[Hz]	1000	1000	1000	1000	1000
IP Grade		IP64	IP64	IP64	IP64	IP64
Communication Mode		RS422/RS485/MODBUS/CAN/EtherCAT/EtherNET/USB/analog				



Mounting Dimensions



Note:FA-KWR75A,FA-KWR75BThe height is31.5mm
Note:FA-KWR75C,FA-KWR75DThe height is33.5mm

Provide adapter flanges that match collaborative robots on the market

FA-KWR82 6-axis force sensor

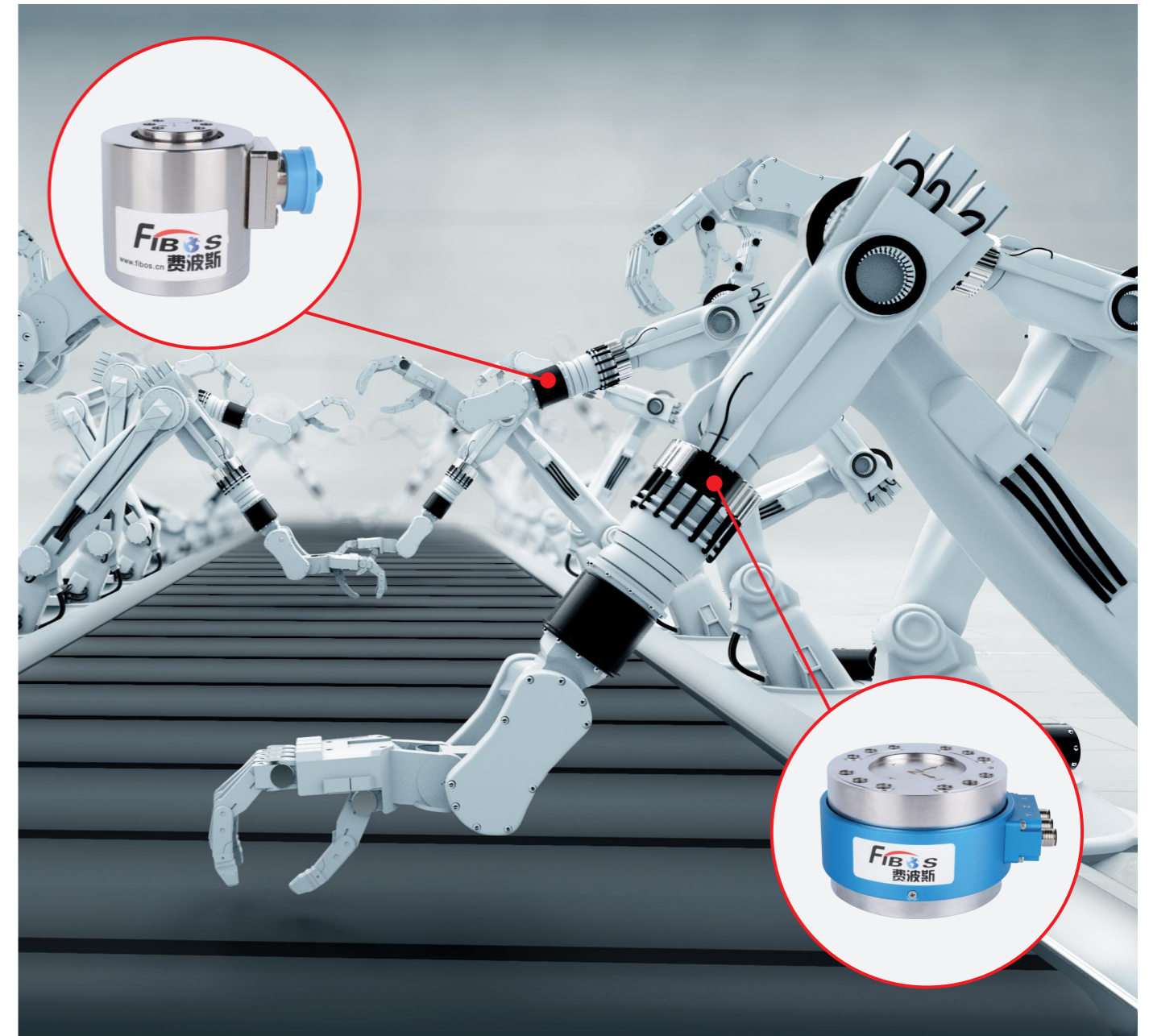
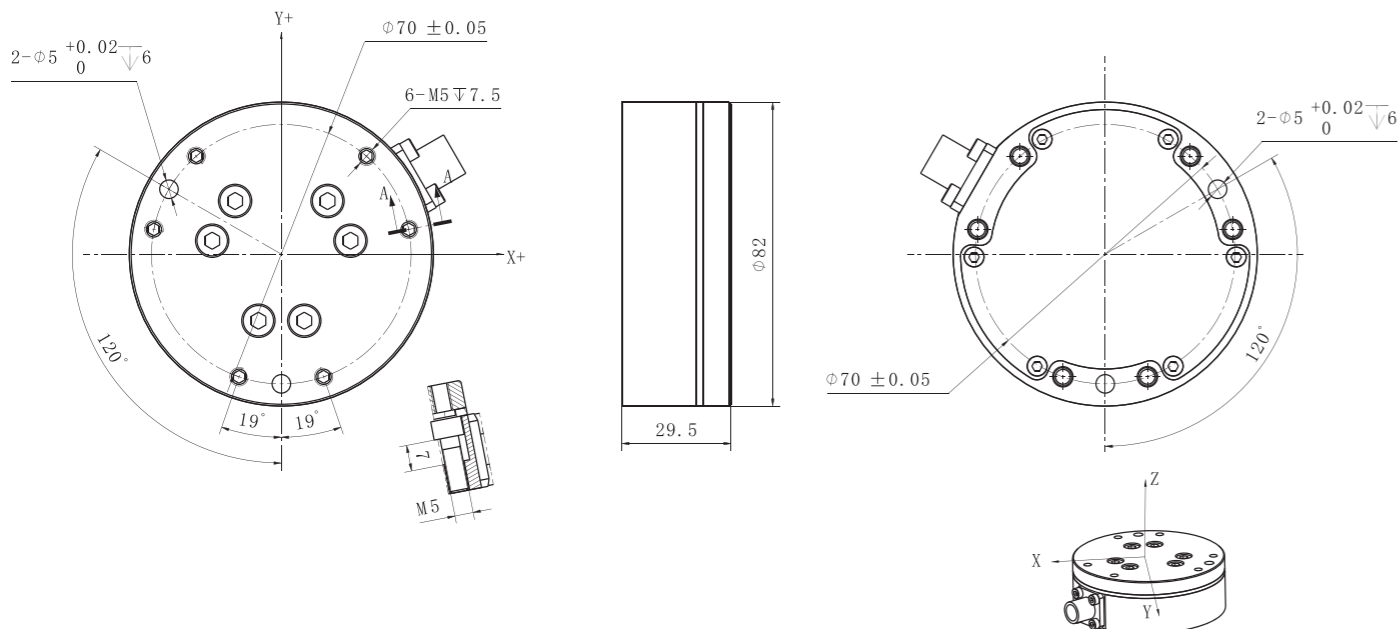
Applied to collaborative robots, medical robots, service robots

• Technical Specifications



Specifications	model	FA-KWR82A	FA-KWR82B	FA-KWR82C	FA-KWR82D	FA-KWR82E
Fx, Fy	[N]	50	200	400	500	30
Fz	[N]	50	200	500	700	30
Mx, My	[Nm]	2	8	12	18	1.5
Mz	[Nm]	2	8	12	18	1.5
Diameter	[mm]	82	82	82	82	82
Height	[mm]	31.5	31.5	33.5	33.5	31.5
Material		Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy	Aluminium alloy
Overload	[%FS]	300	300	300	300	300
Accuracy	[%FS]	0.1	0.1	0.1	0.1	0.1
Weight	[kg]	0.26	0.28	0.36	0.36	0.26
Supply voltage	[VDC]	9-24	9-24	9-24	9-24	9-24
Working temp.	[°C]	0-80	0-80	0-80	0-80	0-80
Sampling resolution	[Bit]	24	24	24	24	24
Sampling frequency	[Hz]	1000	1000	1000	1000	1000
IP Grade		IP64	IP64	IP64	IP64	IP64
Communication Mode		RS422/RS485/MODBUS/CAN/EtherCAT/EtherNET/USB/analog				

• Mounting Dimensions



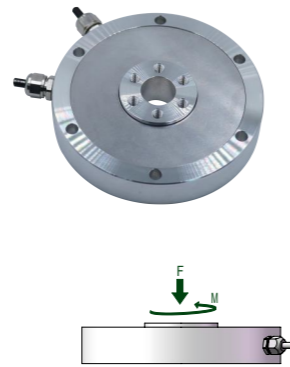
Our company's self-produced multi-dimensional force sensors include (2D, 3D, 4D, 5D, and 6D forces), which adopt the principle of resistance strain. Through special decoupling design, the comprehensive error is relatively small, and it can be used with our self-developed three-channel display instrument, with simple operation and convenient use. The measuring range and size range of the multi-dimensional force sensor are large, with a reasonable structure, and it has been applied in many fields such as robots, aircraft, and shipbuilding.

(The products shown in this brochure are part of our main products and various non-standard customization is available as well.)

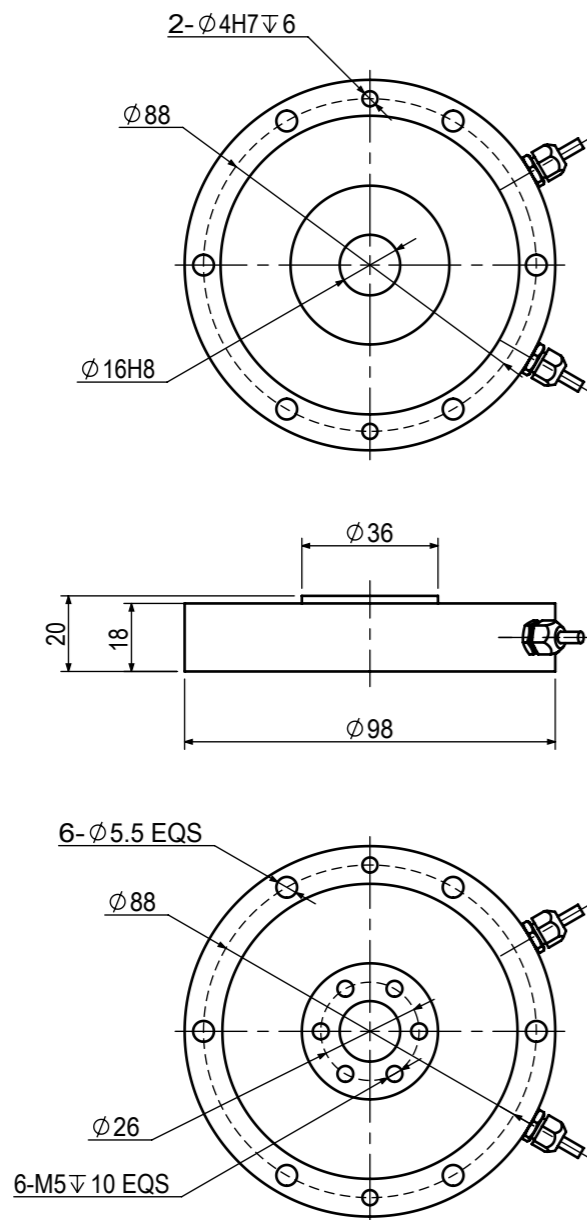
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	F:20/30/50/100/200/500/1000/2000N M:1/2/3/5/10/20/30/50N.m	Temp. effect on output	0.05%F.S./10°C
Sensitivity	1.0±20% μ mV/V	Temp. effect on zero	0.05%F.S./10°C
Zero Balance	±2%F.S.	Insulation Resistance	≥5000M Ω /100V(DC)
Creep	≤0.2%F.S.	Recommended Excitation	5~15V
Non-linearity	≤0.1%F.S.	Max Excitation	20V
Hysteresis	≤0.1%F.S.	Compensated Temp Range	-10~40°C
Repeatability	≤0.1%F.S.	Operating Temp Range	-20~75°C
Input Impedance	350±10 Ω	Safe Overload	150%F.S.
Output Impedance	350±5 Ω	Ultimate Overload	200%F.S.
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-	Cable Size	ϕ 4X3000mm
		Material	Alloy steel

FA701



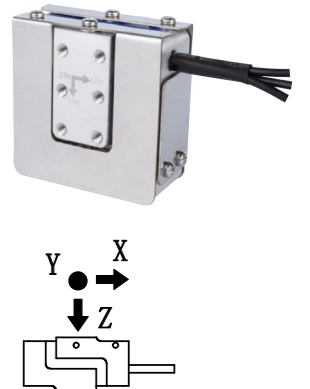
• Mounting Dimensions



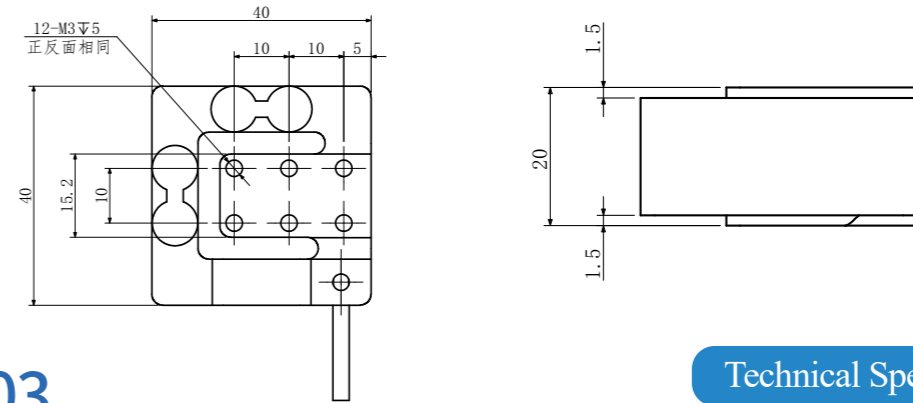
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	X:5/10/20/30/50 Y:5/10/20/30/50 Z:5/10/20/30/50	Temp. effect on output	0.1%F.S./10°C
Sensitivity	≈1.0mV/V	Temp. effect on zero	0.1%F.S./10°C
Zero Balance	±2%F.S.	Insulation Resistance	≥5000M Ω /100V(DC)
Creep	≤0.5%F.S.	Recommended Excitation	5~12V
Non-linearity	≤0.2%F.S.	Max Excitation	15V
Hysteresis	≤0.2%F.S.	Compensated Temp Range	-10~40°C
Repeatability	≤0.2%F.S.	Operating Temp Range	-20~75°C
Input Impedance	350±10 Ω	Safe Overload	150%F.S.
Output Impedance	350±5 Ω	Ultimate Overload	200%F.S.
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-	Cable Size	ϕ 2x3000mm
		Material	Alloy steel

FA702



• Mounting Dimensions



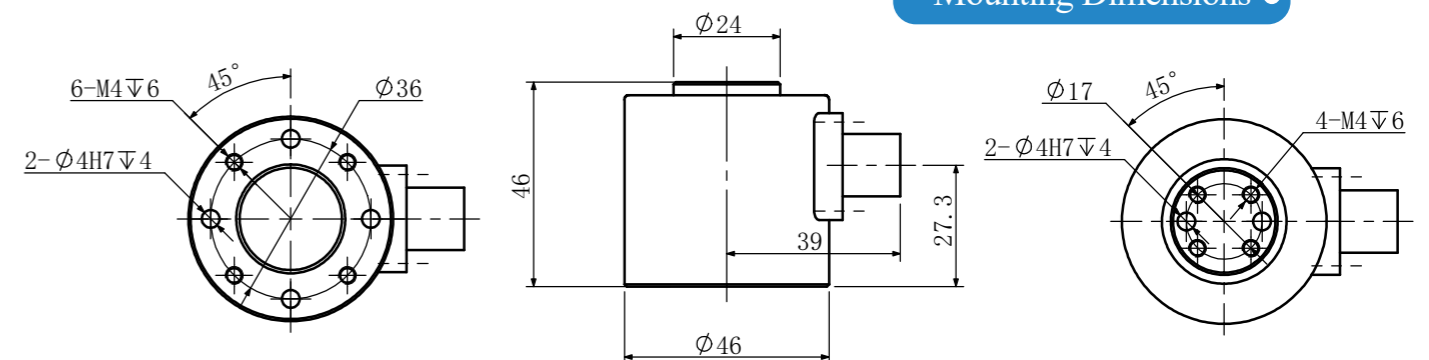
FA703



• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	X:50/100/200/300/500 Y:50/100/200/300/500 Z:50/100/200/300/500	Temp. effect on output	0.1%F.S./10°C
Sensitivity	1.0±20% μ mV/V	Temp. effect on zero	0.1%F.S./10°C
Zero Balance	±2%F.S.	Insulation Resistance	≥5000M Ω /100V(DC)
Creep	≤0.1%F.S.	Recommended Excitation	5~12V
Non-linearity	≤0.1%F.S.	Max Excitation	15V
Hysteresis	≤0.3%F.S.	Compensated Temp Range	-10~40°C
Repeatability	≤0.3%F.S.	Operating Temp Range	-20~75°C
Input Impedance	350±10 Ω	Safe Overload	150%F.S.
Output Impedance	350±5 Ω	Ultimate Overload	200%F.S.
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-	Cable Size	ϕ 5x3000mm
		Material	Stainless steel

• Mounting Dimensions



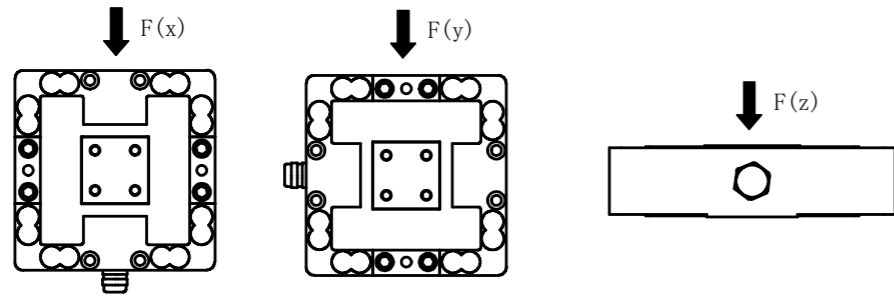
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	X:50/100/200/300 Y:50/100/200/300 Z:50/100/200/300	Output impedance	X/Y:700±5Ω Z:300±5Ω
Sensitivity	≈1.0±10% mV/V	Temp. effect on output	0.1% $F.S./10^{\circ}C$
Zero Balance	±0.02 mV/V	Temp. effect on zero	0.1% $F.S./10^{\circ}C$
Creep	≤0.1% $F.S.$	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Non-linearity	≤0.1% $F.S.$	Recommended Excitation	5~12V
Hysteresis	≤0.3% $F.S.$	Max Excitation	15V
Repeatability	≤0.05% $F.S.$	Compensated Temp Range	-10~40°C
Input Impedance	X/Y:785±20Ω Z:385±20Ω	Operating Temp Range	-20~75°C
Cable Size	φ5x3000mm	Safe Overload	150% $F.S.$
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-	Ultimate Overload	200% $F.S.$
		Material	Alloy steel

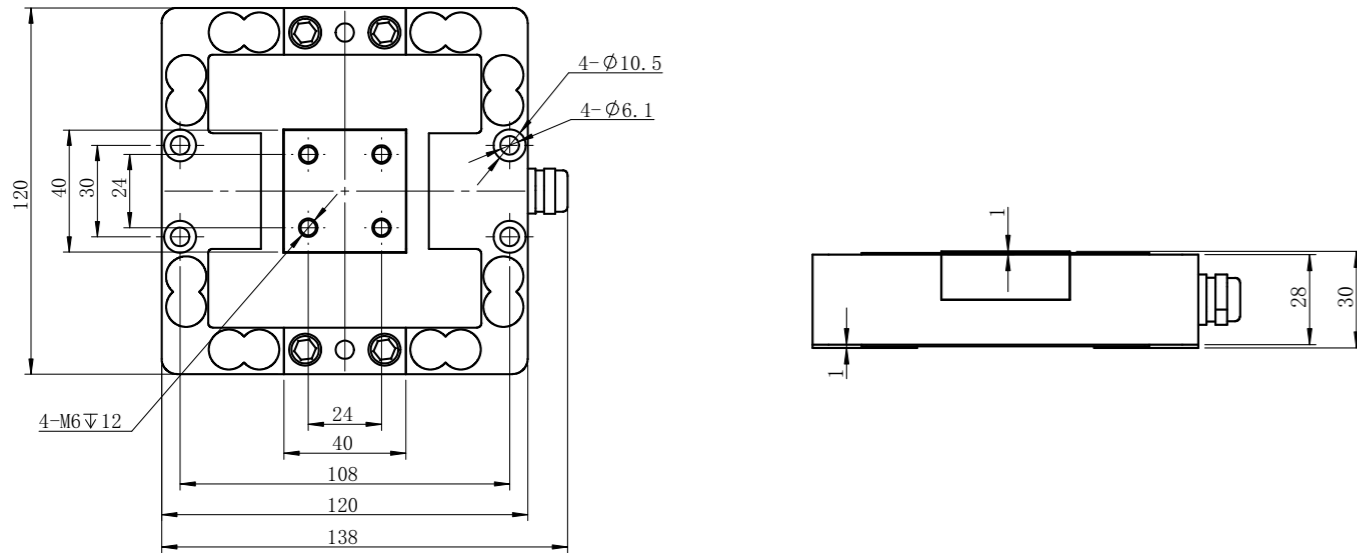


FA704

• Load Direction

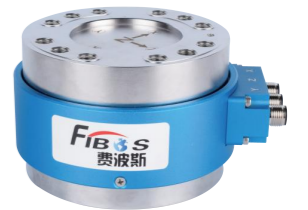


• Mounting Dimensions

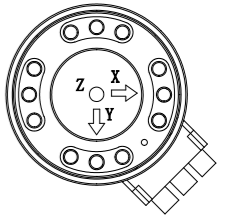


• Technical Specifications

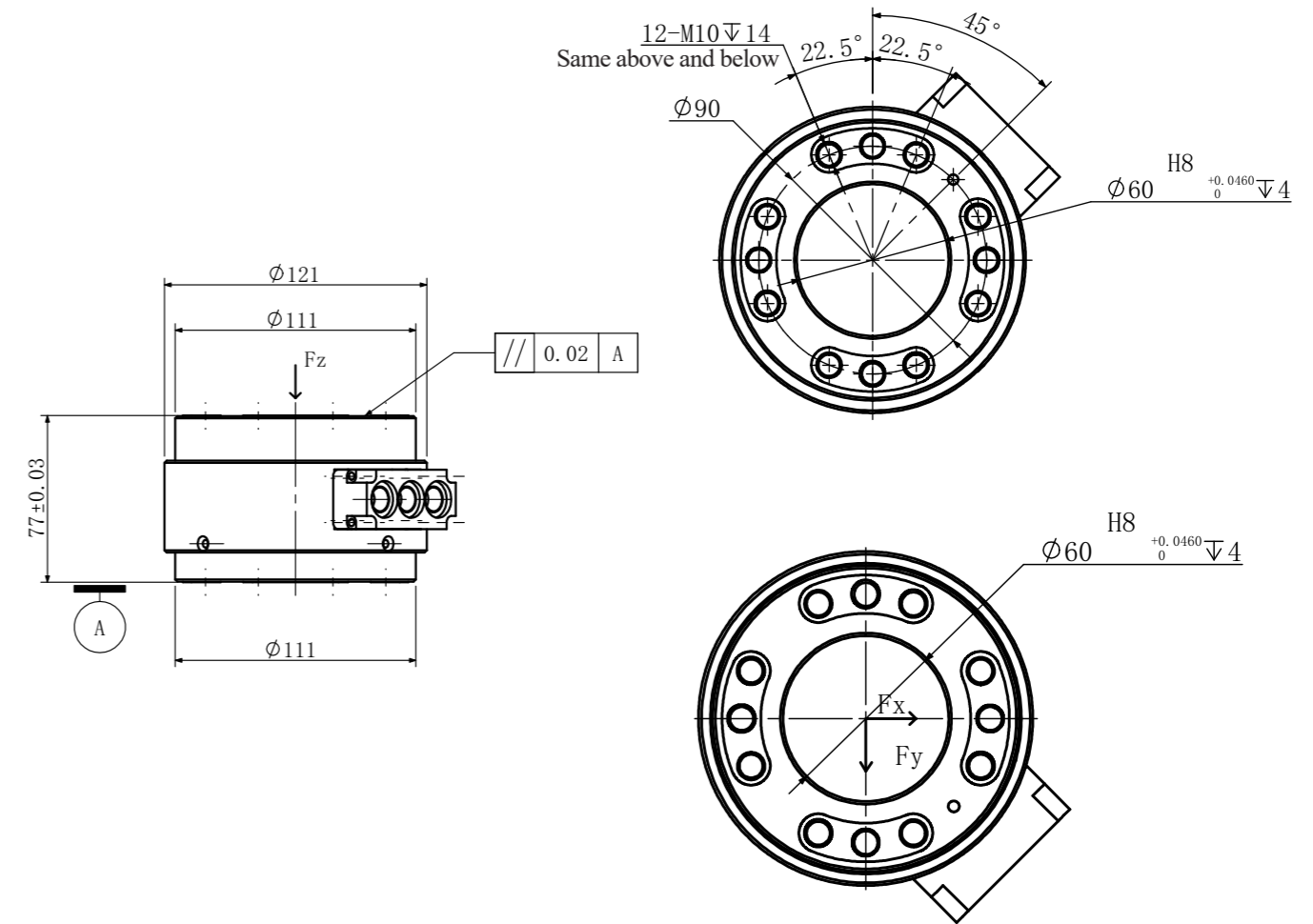
Specifications	Technique	Specifications	Technique
Capacity	FX/Y:20kN FZ:100kN	Temp. effect on zero	0.05% $F.S./10^{\circ}C$
Sensitivity	1.2±30% mV/V	Insulation Resistance	≥5000 $M\Omega/100V(DC)$
Zero Balance	±1% mV/V	Recommended Excitation	10V
Creep	≤0.1% $F.S.$	Max Excitation	15V
Non-linearity	≤0.1% $F.S.$	Compensated Temp Range	-10~60°C
Hysteresis	≤0.3% $F.S.$	Operating Temp Range	-20~80°C
Repeatability	≤0.1% $F.S.$	Safe Overload	120% $F.S.$
Input Impedance	385±20Ω	Ultimate Overload	150% $F.S.$
Output Impedance	350±10Ω	Cable Size	φ5x3000mm
Temp. effect on output	0.05% $F.S./10^{\circ}C$	Material	Stainless Steel
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		



FA731



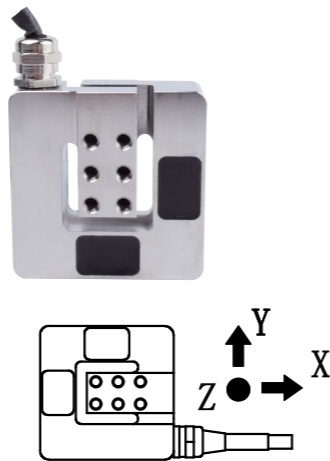
• Mounting Dimensions



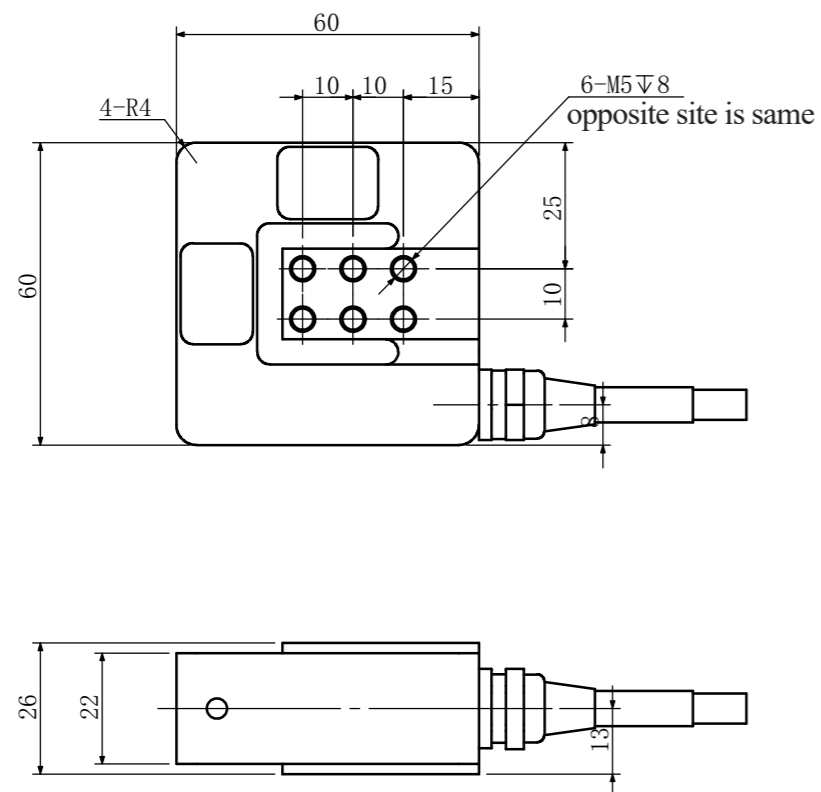
• Technical Specifications

Specifications	Technique	Specifications	Technique
Capacity	X/Y/Z:10,20,30, 50kg	Temp. effect on zero	0.05%F.S./10°C
Sensitivity	1.0±30% mV/V	Insulation Resistance	≥5000M Ω /100V(DC)
Zero Balance	±2% mV/V	Recommended Excitation	5~12V
Creep	≤0.1%F.S.	Max Excitation	15V
Non-linearity	≤0.1%F.S.	Compensated Temp Range	-10~60°C
Hysteresis	≤0.2%F.S.	Operating Temp Range	-20~80°C
Repeatability	≤0.1%F.S.	Safe Overload	150%F.S.
Input Impedance	350±5 Ω	Ultimate Overload	200%F.S.
Output Impedance	350±5 Ω	Cable Size	φ5x3000mm
Temp. effect on output	0.05%F.S./10°C	Material	Stainless Steel
Wiring	Red: EXC+, Green: Sig+, Yellow: Shielding wire, White: Sig-, Black: EXC-		

FA742



• Mounting Dimensions



• Technical Specifications

Specifications	Technique	Specifications	Technique
Output specifications	0.4~6 mV/V	Working temp. range	-30~60°C
Comprehensive accuracy	≤0.1%F.S.	Withstand voltage	1min under 2000V AC50/60HZ
Sensor excitation voltage	5VDC±2%, 100mA (or 12VDC optional)	Surrounding environment	Ambient temp.: -10~55°C Storage temp.: -25~65°C Ambient humidity: 35~85%RH Storage humidity: 35~85%RH
Power supply	DC:15V~30V	A/D performance	24bit, Delata-Sigma
Input load	350~1000 Ω 8pcs of sensors	Output rate	10/40/640/1280 t/s
Output port	RS485/232(alternative) (Modbus RTU/ASCII)		

FA07-A8



• Mounting Dimensions

