

微型压力传感器

Force Sensor

本公司自主研发生产的微型不锈钢力传感器;尺寸小巧,结构多样,已广泛用于自动化组装、3C产品测试。新能源产品组装、医疗检测、机器人领域及其他小空间力测试,测量范围广,最小可达200g,结构合理,精度最高可达万分之三。采用电阻应变式原理,使用寿命及安全性高,响应频率高,可定制高低温。
(仅展示部分常规品,支持非标定制。)

Force Sensor:

Our company independently produces miniature sensors with small and diverse structures that have been widely used in the electronics, 3C, medical and other industries. The measurement range is broad, with a minimum range of 200g, and the structure is reasonable. The highest accuracy can reach 0.03%. These sensors use the principle of resistance strain and have a high service.

(Please note that the products showcased represent only a portion of our standard offerings, as we also support OEM&ODM.)



主要应用于:

3C自动化、汽车、机器人、电子机械设备、自动化设备、医疗、新能源等其他工业测试、测量以及控制系统。

Applications:

3C automation, automotive, robot, electronic mechanical equipment, automation equipment, medical, new energy and other industrial testing, measurement and control systems.

专业生产传感器

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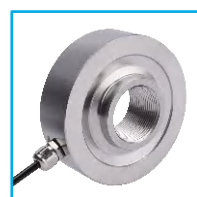
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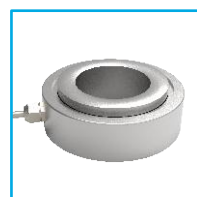
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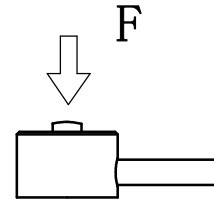


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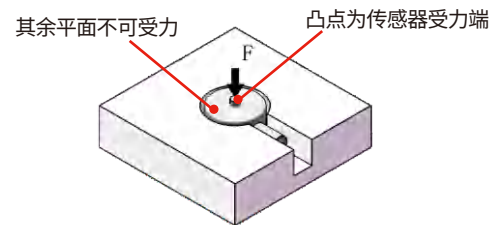


受力方向 Load Direction

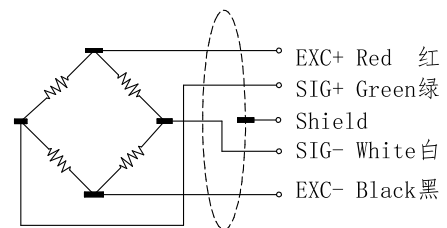


安装方式 Installation

●开孔嵌入式安装



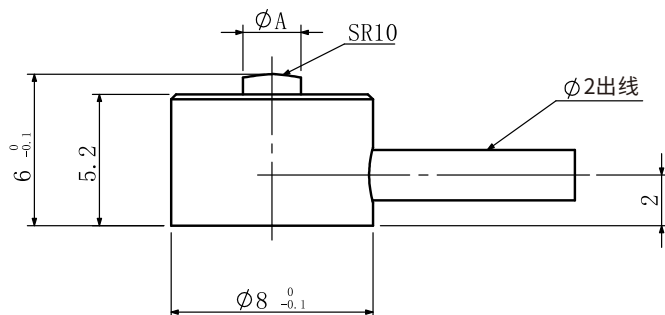
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	N	50, 100, 200, 500, 1000N	
满量程位移量 Deflection at Full Scale	mm	<0.03	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ2×3m	
弹性体材料 Spring Element Material	-	17-4PH	
产品重量 Weight	kg	0.02kg	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.5	
线性误差 Non-linearity	%	≤0.5	
相对滞后 Hysteresis	%	≤0.5	
重复误差 Repeatability	%	≤0.5	
负载蠕变 Creep (30 min)	%	≤0.5	
温度漂移 Temperature Effect on Output		0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.0±30%	
激励电压 Excitation Voltage	V(DC)	5~10	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

安装尺寸 Dimensions



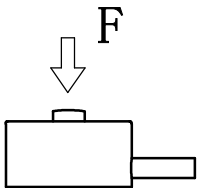
Cap(N)	A
50, 100, 200	1.6
500, 1000	2.3

FA102

微型压力传感器

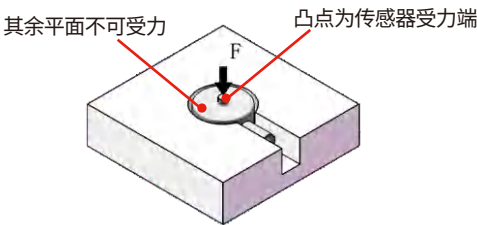


受力方向 Load Direction

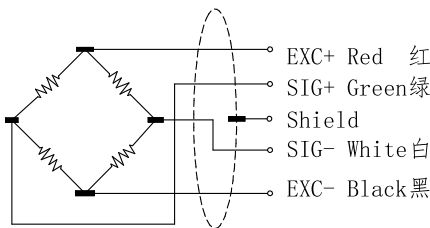


安装方式 Installation

●开孔嵌入式安装



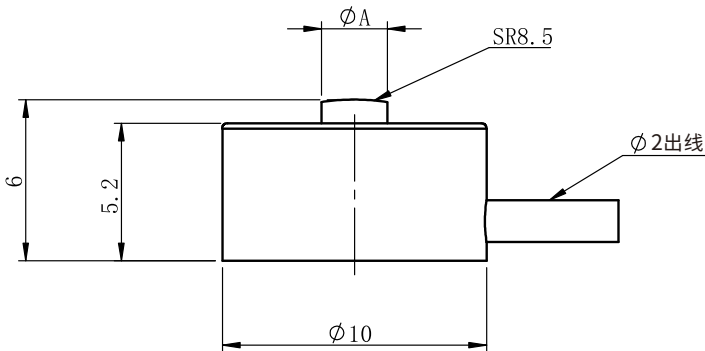
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	100,200,500,1000N
满量程位移量 Deflection at Full Scale	mm	<0.03
固有频率 Natural Frequency	Hz	>5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2×3m
弹性体材料 Spring Element Material	-	17-4PH
产品重量 Weight	kg	0.02kg
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.5
线性误差 Non-linearity	%	≤0.5
相对滞后 Hysteresis	%	≤0.5
重复误差 Repeatability	%	≤0.5
负载蠕变 Creep (30 min)	%	≤0.5
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.0±30%
激励电压 Excitation Voltage	V(DC)	5~10
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装尺寸 Dimensions

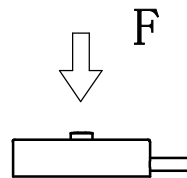


Cap(N)	A
100	1.6
200,500,1000	2.3

FA103

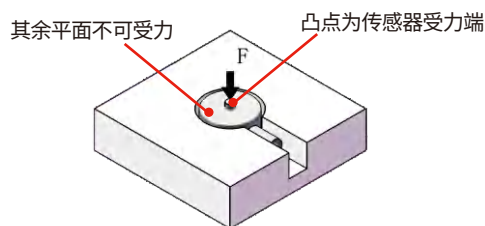


受力方向 Load Direction

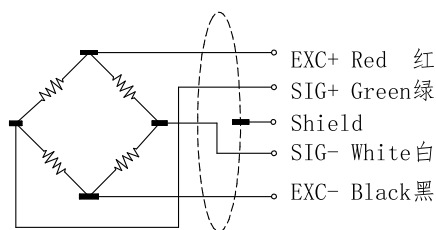


安装方式 Installation

●开孔嵌入式安装



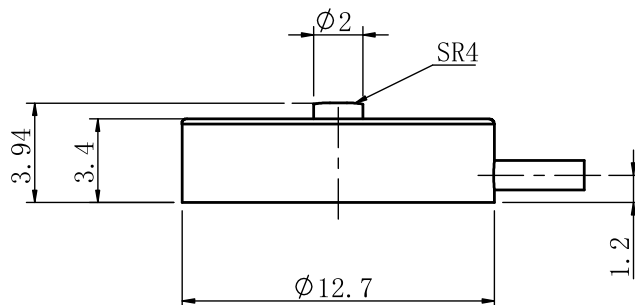
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	kg	5, 10, 20, 50, 100kg	
满量程位移量 Deflection at Full Scale	mm	<0.03	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ1.2×3m	
弹性体材料 Spring Element Material	-	17-4PH	
产品重量 Weight	kg	0.1kg	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.5	
线性误差 Non-linearity	%	≤0.5	
相对滞后 Hysteresis	%	≤0.2	
重复误差 Repeatability	%	≤0.2	
负载蠕变 Creep (30 min)	%	≤0.5	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.5±30%	
激励电压 Excitation Voltage	V(DC)	5~10	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

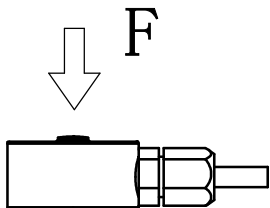
安装尺寸 Dimensions



FA104

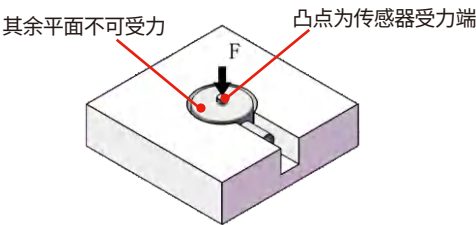
微型压力传感器

受力方向 Load Direction

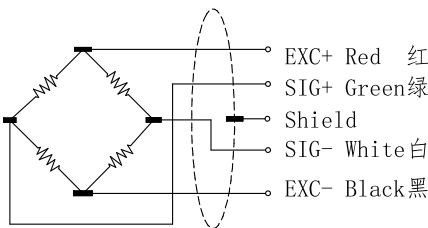


安装方式 Installation

●开孔嵌入式安装



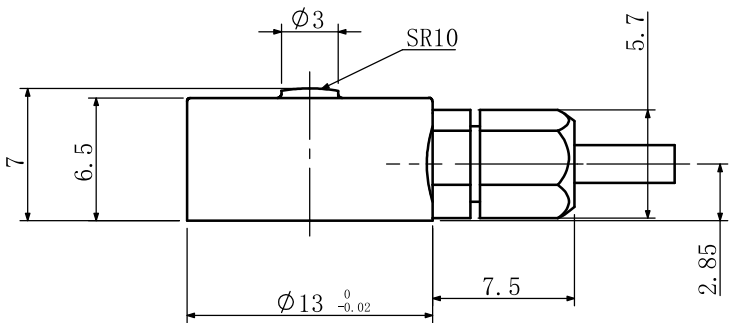
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	50,100,200,300,1000N
满量程位移量 Deflection at Full Scale	mm	<0.03
固有频率 Natural Frequency	Hz	>5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3×3m
弹性体材料 Spring Element Material	-	17-4PH
产品重量 Weight	kg	0.1kg
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.5
线性误差 Non-linearity	%	≤0.5
相对滞后 Hysteresis	%	≤0.5
重复误差 Repeatability	%	≤0.5
负载蠕变 Creep (30 min)	%	≤0.5
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.5±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

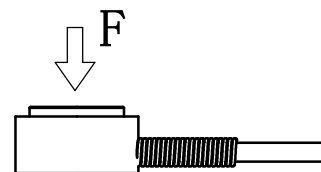
安装尺寸 Dimensions



FA104C

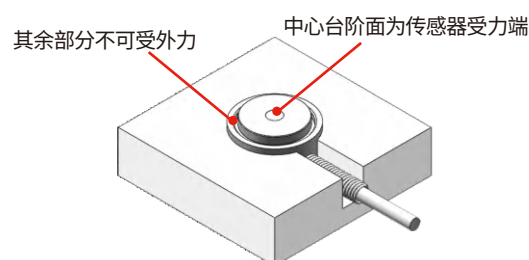


受力方向 Load Direction

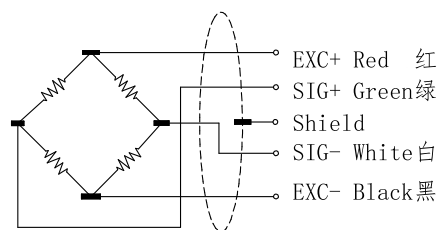


安装方式 Installation

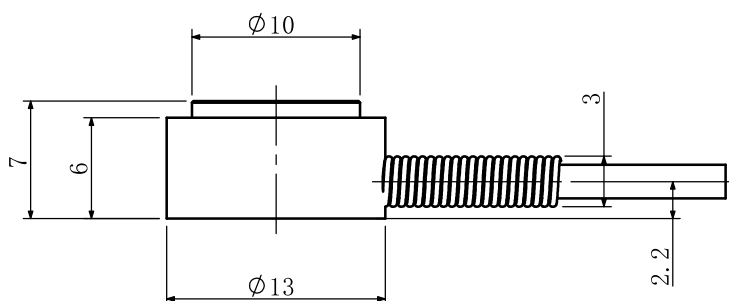
●开孔嵌入式安装



接线图 Wiring



安装尺寸 Dimensions



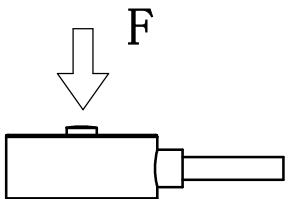
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	20,50,70kg
满量程位移量 Deflection at Full Scale	mm	<0.02
固有频率 Natural Frequency	Hz	>5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2×3m
弹性体材料 Spring Element Material	-	17-4PH
产品重量 Weight	kg	0.1kg
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.5
线性误差 Non-linearity	%	≤0.5
相对滞后 Hysteresis	%	≤0.5
重复误差 Repeatability	%	≤0.3
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.5±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

FA106

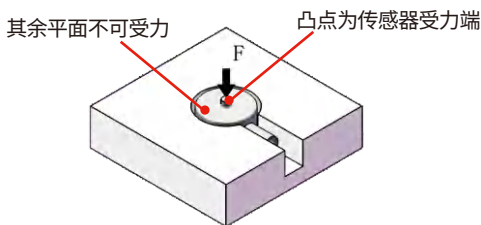
微型压力传感器

受力方向 Load Direction

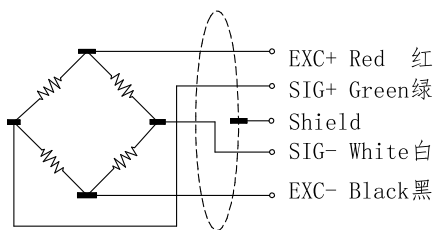


安装方式 Installation

●开孔嵌入式安装



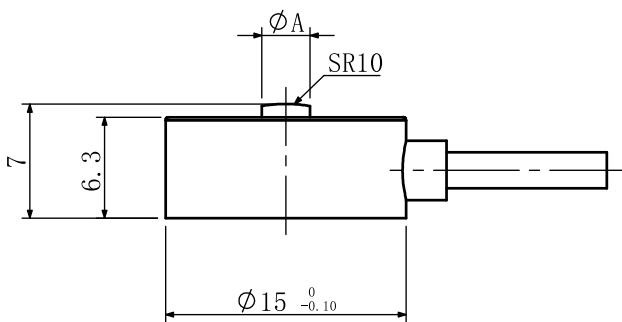
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	N	50,100,200,300,500,1000N	
满量程位移量 Deflection at Full Scale	mm	<0.03	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	根据量程选择	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.5	
线性误差 Non-linearity	%	≤0.5	
相对滞后 Hysteresis	%	≤0.5	
重复误差 Repeatability	%	≤0.3	
负载蠕变 Creep (30 min)	%	≤0.1	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.0 ± 30%	
激励电压 Excitation Voltage	V(DC)	5~12	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

安装尺寸 Dimensions

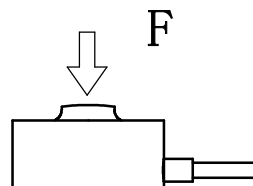


Cap(N)	A
50,100,200	1.5
300,500,1000	3

FA107

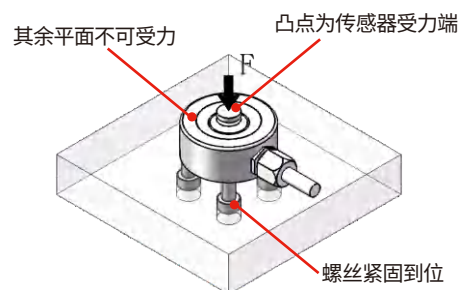


受力方向 Load Direction

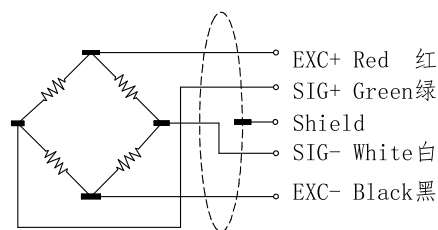


安装方式 Installation

●螺丝固定式安装



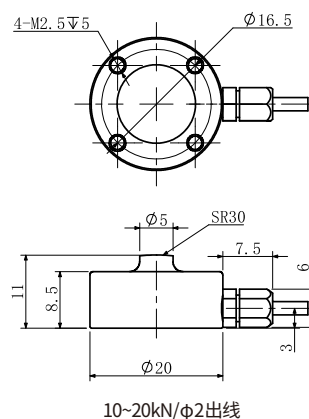
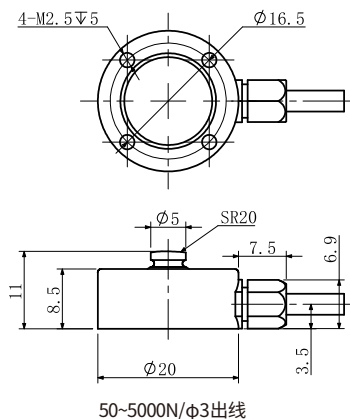
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N;kN	50,100,200,500N 1,2,5,10,20kN
满量程位移量 Deflection at Full Scale	mm	<0.07
固有频率 Natural Frequency	Hz	>5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-10~60
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2/3×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.5
线性误差 Non-linearity	%	≤0.5
相对滞后 Hysteresis	%	≤0.2
重复误差 Repeatability	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.5±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装尺寸 Dimensions

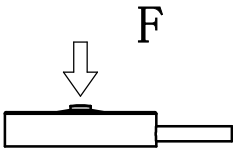


FA107A

微型压力传感器

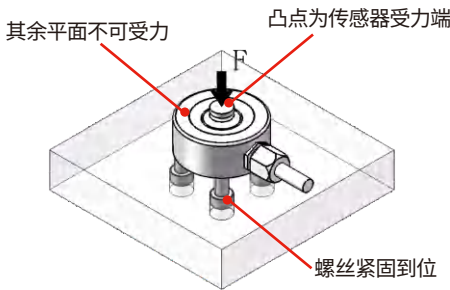


受力方向 Load Direction

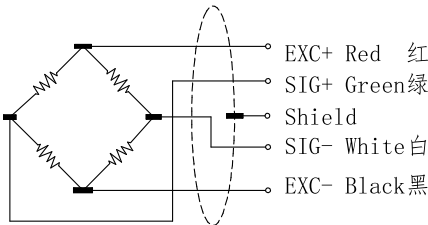


安装方式 Installation

● 螺丝固定式安装



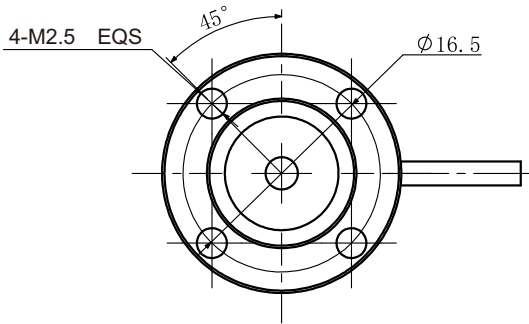
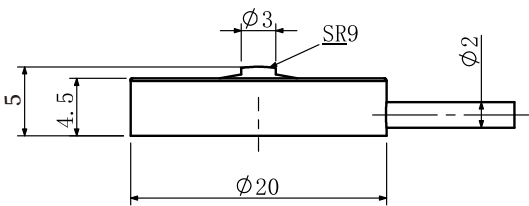
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	N	100,200,500,1000N	
满量程位移量 Deflection at Full Scale	mm	<0.03	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ2x3m	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.5	
线性误差 Non-linearity	%	≤0.5	
相对滞后 Hysteresis	%	≤0.2	
重复误差 Repeatability	%	≤0.1	
负载蠕变 Creep (30 min)	%	≤0.1	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.5 ± 30%	
激励电压 Excitation Voltage	V(DC)	5~12	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

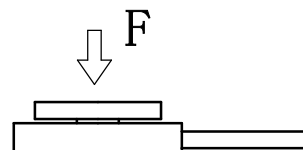
安装尺寸 Dimensions



FA107B

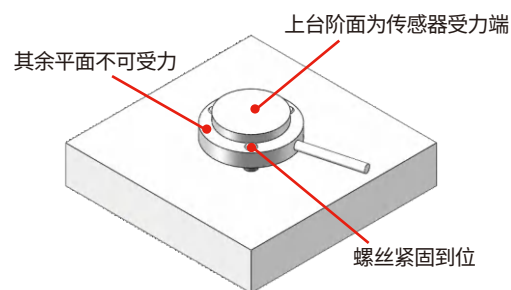


受力方向 Load Direction

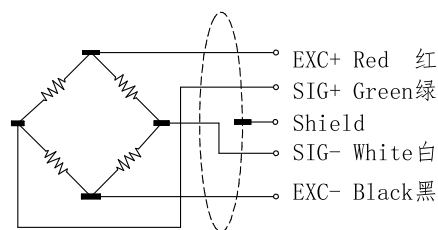


安装方式 Installation

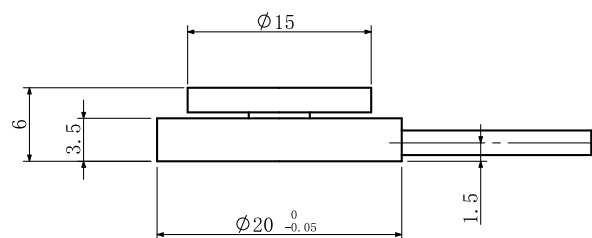
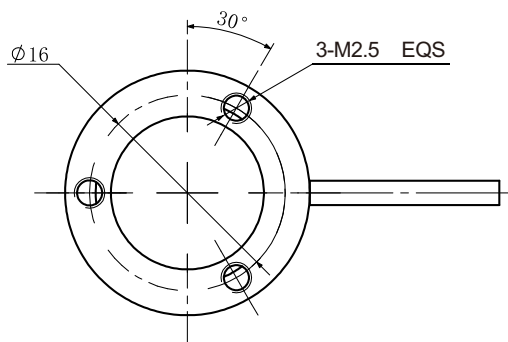
● 螺丝固定式安装



接线图 Wiring



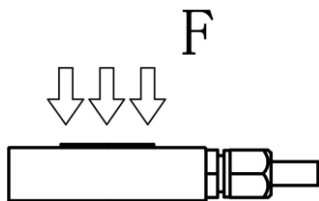
安装尺寸 Dimensions



FA109

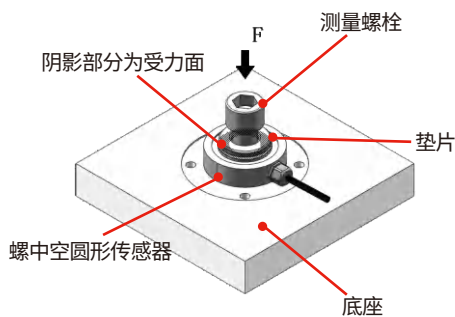
微型压力传感器

受力方向 Load Direction

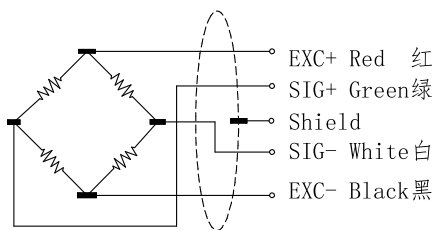


安装方式 Installation

●中孔环形安装



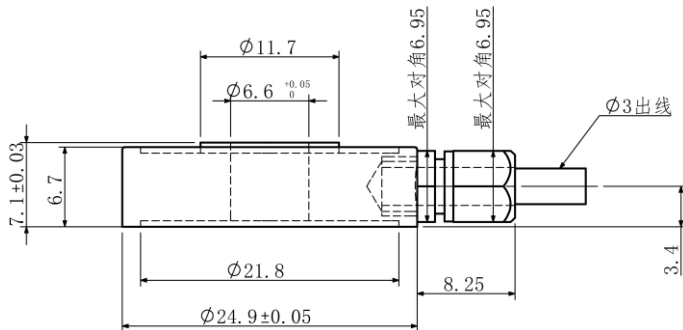
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	N	50,100,200,500,1000,1500N	
满量程位移量 Deflection at Full Scale	mm	<0.08	
固有频率 Natural Frequency	Hz	>3K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ3x3m	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.5	
线性误差 Non-linearity	%	≤0.5	
相对滞后 Hysteresis	%	≤0.2	
重复误差 Repeatability	%	≤0.2	
负载蠕变 Creep (30 min)	%	≤0.1	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.5±30%	
激励电压 Excitation Voltage	V(DC)	5~12	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

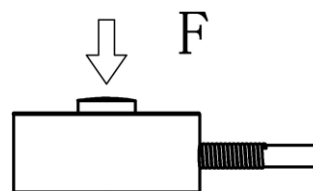
安装尺寸 Dimensions



FA110

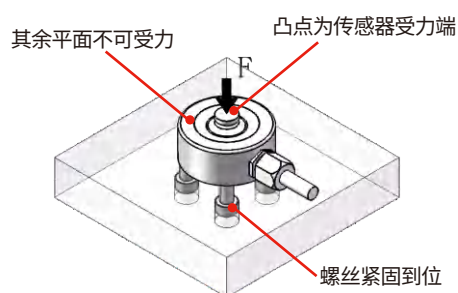


受力方向 Load Direction

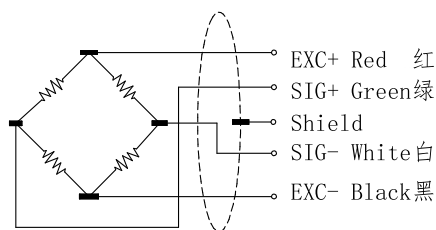


安装方式 Installation

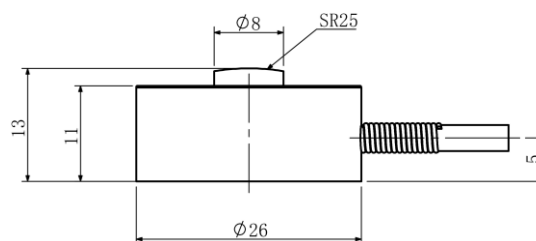
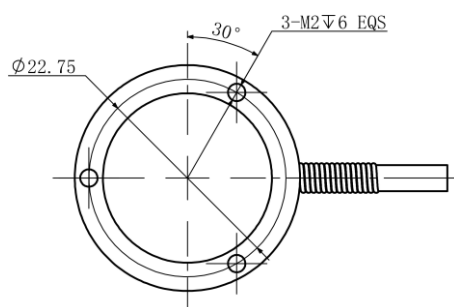
● 螺丝固定式安装



接线图 Wiring



安装尺寸 Dimensions

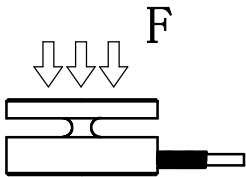


FA113A

微型压力传感器

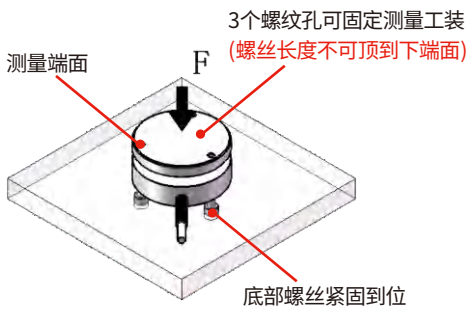


受力方向 Load Direction

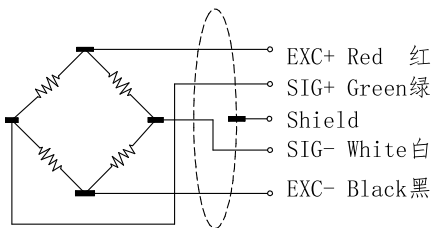


安装方式 Installation

●上下法兰结构安装



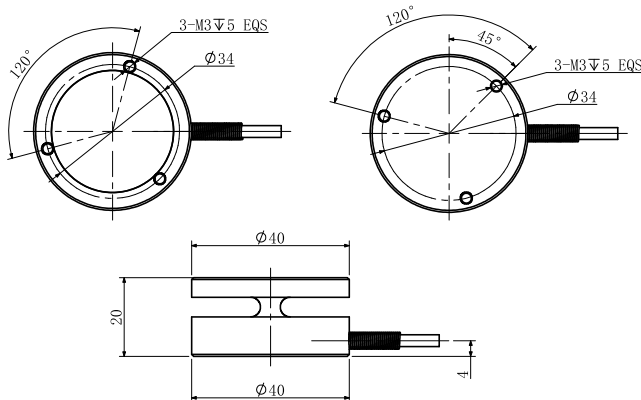
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	10,20,50,100,200,500,1000kg
满量程位移量 Deflection at Full Scale	mm	<0.05
固有频率 Natural Frequency	Hz	>1K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.2
线性误差 Non-linearity	%	≤0.2
相对滞后 Hysteresis	%	≤0.2
重复误差 Repeatability	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.5±30%
激励电压 Excitation Voltage	V(DC)	5
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

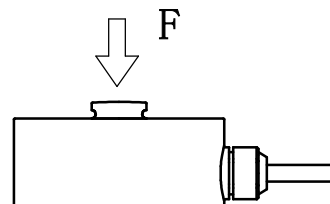
安装尺寸 Dimensions



FA114



受力方向 Load Direction

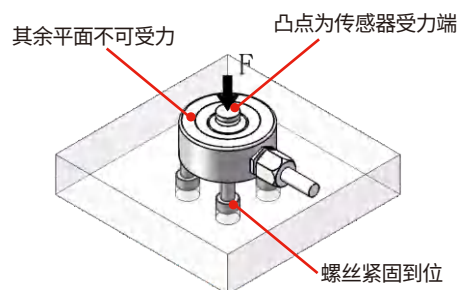


技术参数 Specifications

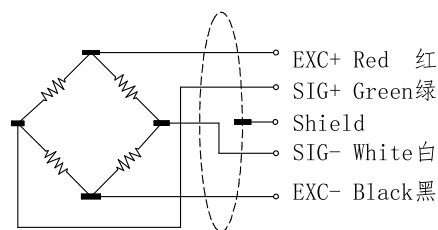
传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	kN	1,2,5,10,20,30,50,100,150kN	
满量程位移量 Deflection at Full Scale	mm	<0.1	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ4x3m	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.2	
线性误差 Non-linearity	%	≤0.2	
相对滞后 Hysteresis	%	≤0.1	
重复误差 Repeatability	%	≤0.1	
负载蠕变 Creep (30 min)	%	≤0.1	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.5±30%	
激励电压 Excitation Voltage	V(DC)	5~12	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

安装方式 Installation

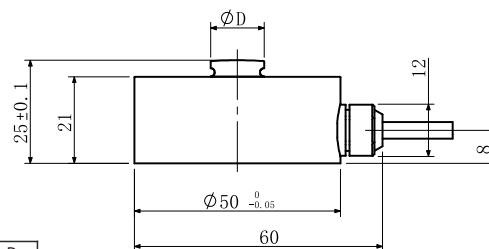
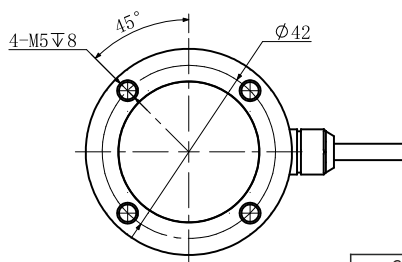
● 螺丝固定式安装



接线图 Wiring



安装尺寸 Dimensions



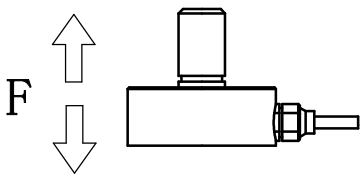
Cap(kN)	D
1,2,5,10,20,30	13
50	16
100,150	21

FA114B

微型压力传感器

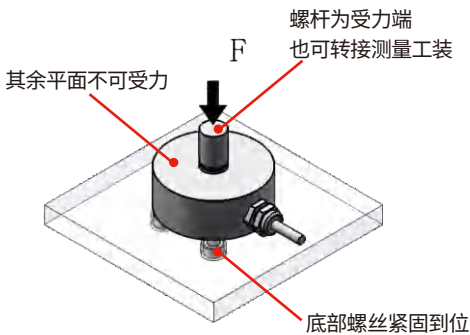


受力方向 Load Direction

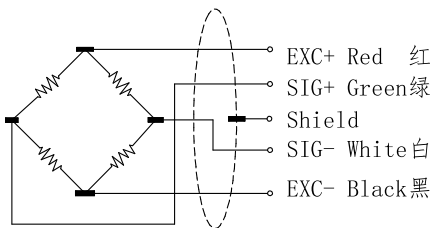


安装方式 Installation

●中孔环形安装



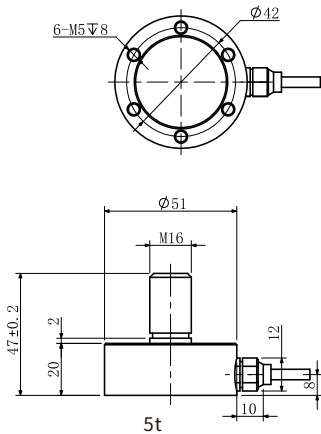
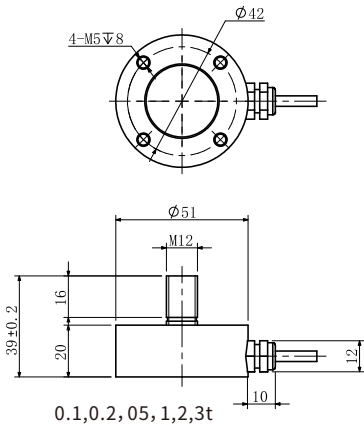
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	t	0.1,0.2,0.5,1,2,3,5t	
满量程位移量 Deflection at Full Scale	mm	<0.06	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ4x3m	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.2	
线性误差 Non-linearity	%	≤0.2	
相对滞后 Hysteresis	%	≤0.2	
重复误差 Repeatability	%	≤0.1	
负载蠕变 Creep (30 min)	%	≤0.1	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
传感器电气参数 Electrical Parameters			
满量程输出 Rated Output	mV/V	1.5 ± 30%	
激励电压 Excitation Voltage	V(DC)	5	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

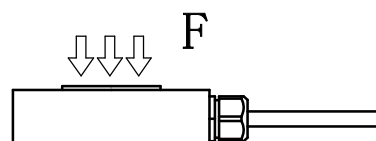
安装尺寸 Dimensions



FA115



受力方向 Load Direction

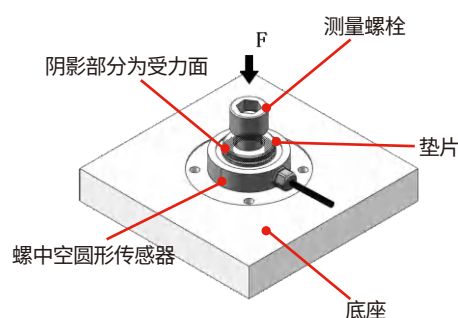


技术参数 Specifications

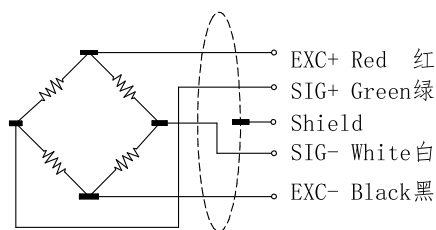
传感器物理参数 Sensor Physical Parameters			
额定量程	Nominal Capacity	kg	10,20,50,100,200,300,500,1000,2000kg
满量程位移量	Deflection at Full Scale	mm	<0.06
固有频率	Natural Frequency	Hz	>1K
过载能力	Safe Overload	%	150
工作温度	Operating Temperature	°C	-20~80
防护等级	Ingress Protection (IP)	IP	65
电缆长度	Cable	M	φ4×3m
弹性体材料	Spring Element Material	-	17-4PH
测量方向	Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters			
综合精度	Combined Error	%	≤0.3
线性误差	Non-linearity	%	≤0.3
相对滞后	Hysteresis	%	≤0.2
重复误差	Repeatability	%	≤0.2
负载蠕变	Creep (30 min)	%	≤0.1
温度漂移	Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters			
满量程输出	Rated Output	mV/V	1.5±30%
激励电压	Excitation Voltage	V(DC)	5
绝缘电阻	Insulation Resistance	MΩ/VDC	≥5000/100

安装方式 Installation

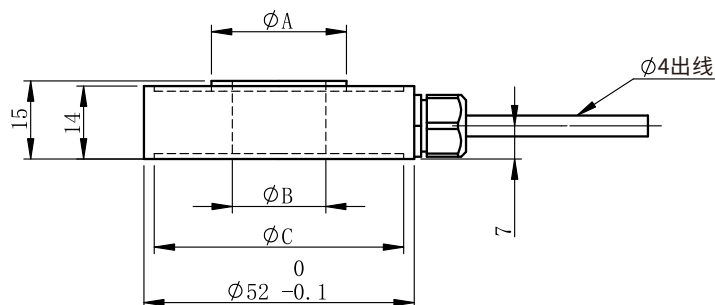
●中孔环形安装



接线图 Wiring



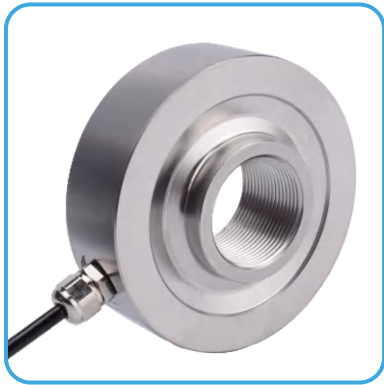
安装尺寸 Dimensions



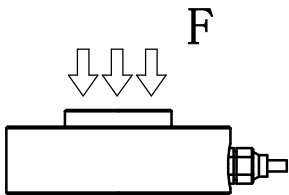
Cap(kg)	A	B	C
10~30	29	20	47
500~2000	34	20	43

FA118

微型压力传感器

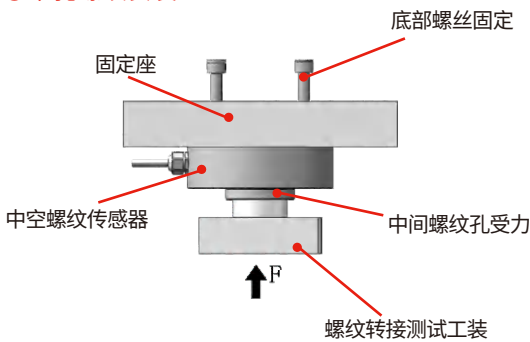


受力方向 Load Direction

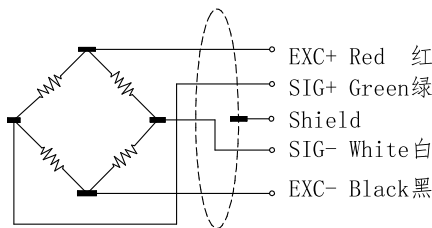


安装方式 Installation

● 中孔螺纹安装



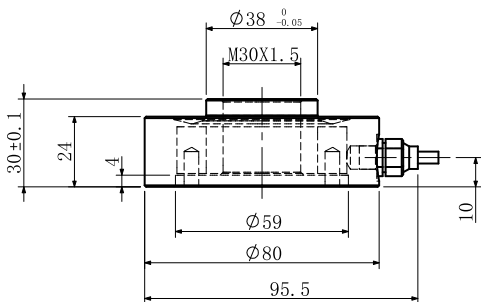
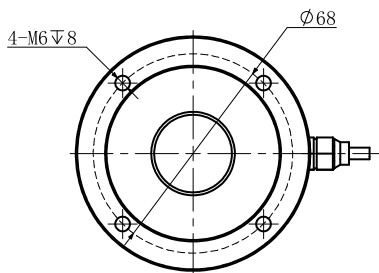
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程	Nominal Capacity	kN	5,10,20,30,50kN
满量程位移量	Deflection at Full Scale	mm	-
固有频率	Natural Frequency	Hz	-
过载能力	Safe Overload	%	150
工作温度	Operating Temperature	°C	-20~80
防护等级	Ingress Protection (IP)	IP	65
电缆长度	Cable	M	φ4x3m
弹性体材料	Spring Element Material	-	17-4PH
测量方向	Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters			
综合精度	Combined Error	%	≤0.2
线性误差	Non-linearity	%	≤0.2
相对滞后	Hysteresis	%	≤0.2
重复误差	Repeatability	%	≤0.1
负载蠕变	Creep (30 min)	%	≤0.1
温度漂移	Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters			
满量程输出	Rated Output	mV/V	1.5 ± 30%
激励电压	Excitation Voltage	V(DC)	5~12
绝缘电阻	Insulation Resistance	MΩ/VDC	≥5000/100

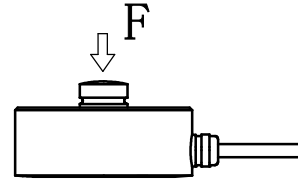
安装尺寸 Dimensions



FA119B

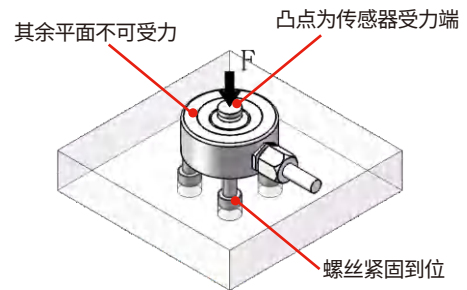


受力方向 Load Direction

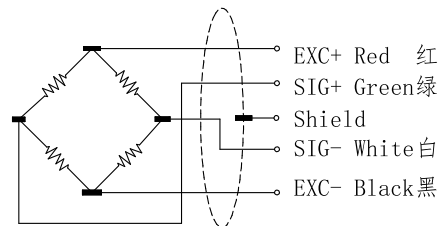


安装方式 Installation

● 螺纹固定式安装



接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters

额定量程 Nominal Capacity	kN	5,10,20,30,50,100,150,200,300,500,1000kN
满量程位移量 Deflection at Full Scale	mm	<0.088
固有频率 Natural Frequency	Hz	>5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ5×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向

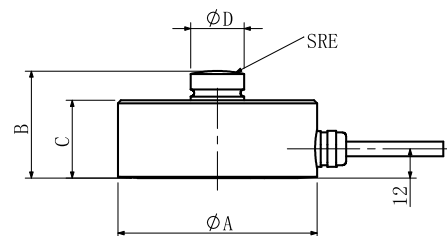
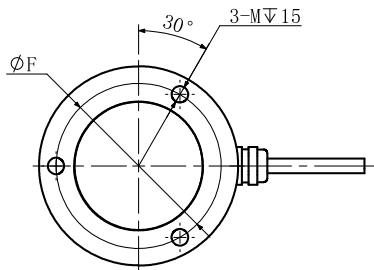
传感器精度参数 Sensor Accuracy Parameters

综合精度 Combined Error	%	≤0.05
线性误差 Non-linearity	%	≤0.05
相对滞后 Hysteresis	%	≤0.05
重复误差 Repeatability	%	≤0.05
负载蠕变 Creep (30 min)	%	≤0.05
温度漂移 Temperature Effect on Output	%	0.05%/10°C

传感器电气参数 Electrical Parameters

满量程输出 Rated Output	mV/V	1.5±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装尺寸 Dimensions



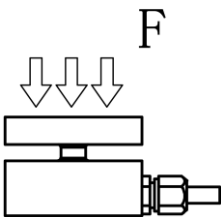
Cap(kN)	A	B	C	D	E	F	M
5,10,20,30,50,100	82	44	32	22	50	70	M8
150,200	100	48	36	28	100	80	M8
300	126	54	40	35	100	101	M10
500,1000	165	80	62	60	100	150	M10

FA127

微型压力传感器

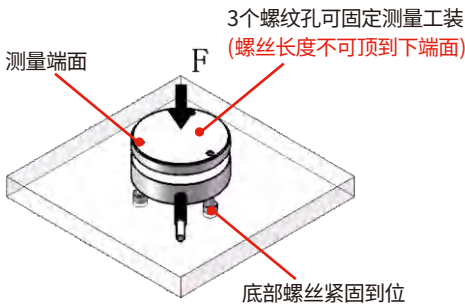


受力方向 Load Direction

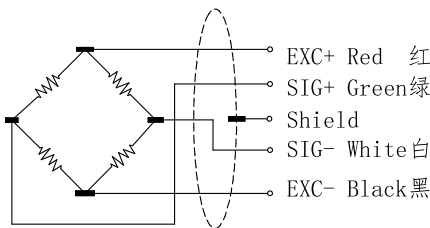


安装方式 Installation

●上下法兰结构安装



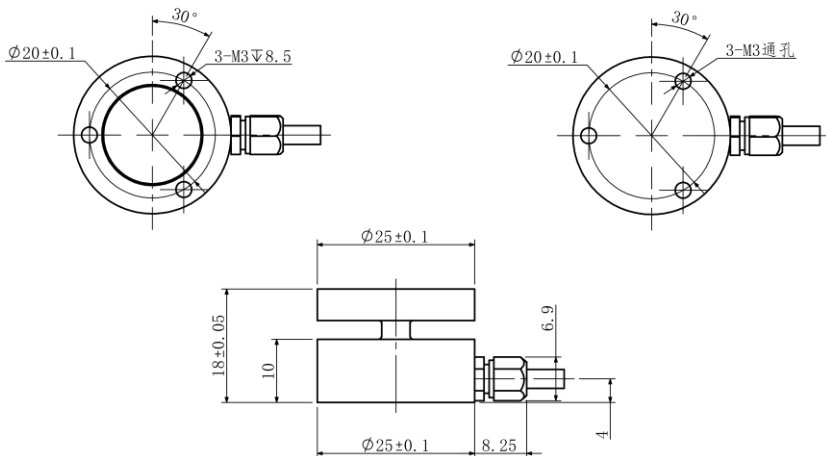
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	10,20,50,100,200,500kg
满量程位移量 Deflection at Full Scale	mm	<0.024
固有频率 Natural Frequency	Hz	>2K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.5
线性误差 Non-linearity	%	≤0.5
相对滞后 Hysteresis	%	≤0.3
重复误差 Repeatability	%	≤0.2
负载蠕变 Creep (30 min)	%	≤0.2
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.0±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

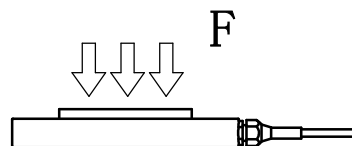
安装尺寸 Dimensions



FA128



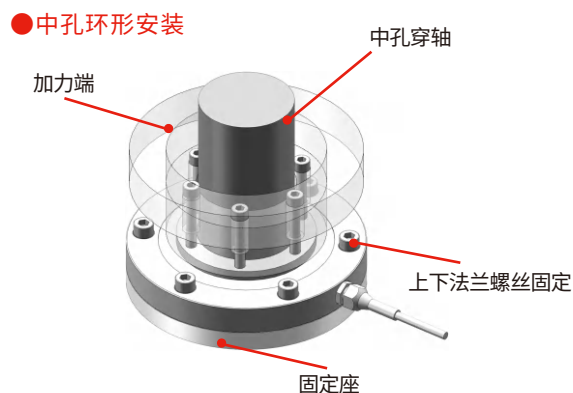
受力方向 Load Direction



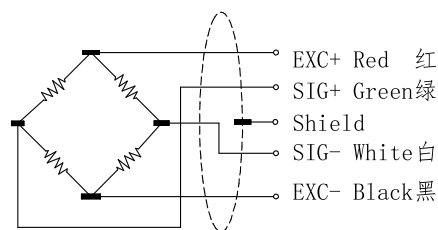
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg/t	20, 50, 100, 200, 500kg 1, 2, 3t
满量程位移量 Deflection at Full Scale	mm	<0.03
固有频率 Natural Frequency	Hz	>3K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ4×3m
弹性体材料 Spring Element Material	-	合金钢
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.3
线性误差 Non-linearity	%	≤0.2
相对滞后 Hysteresis	%	≤0.3
重复误差 Repeatability	%	≤0.2
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.0±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

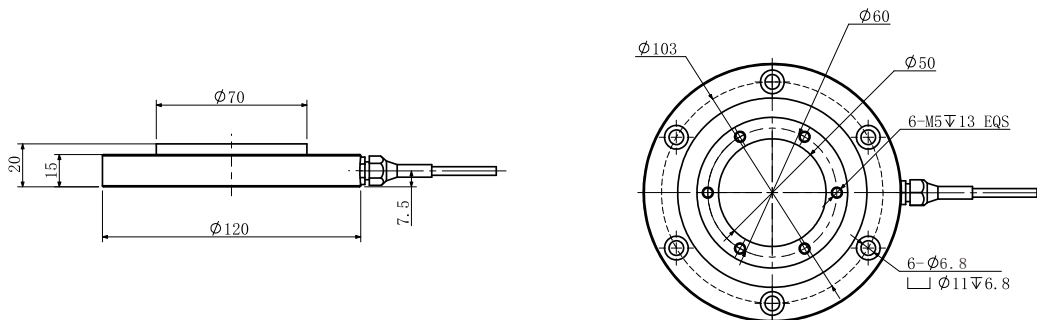
安装方式 Installation



接线图 Wiring

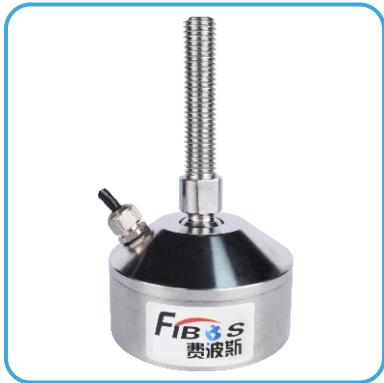


安装尺寸 Dimensions

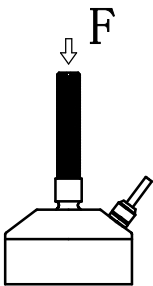


FA135

微型压力传感器

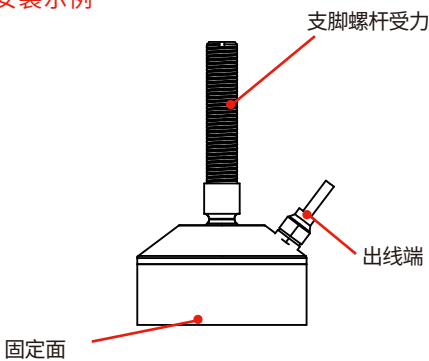


受力方向 Load Direction

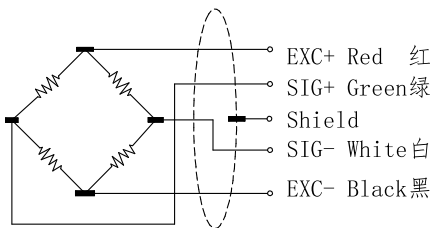


安装方式 Installation

● 安装示例



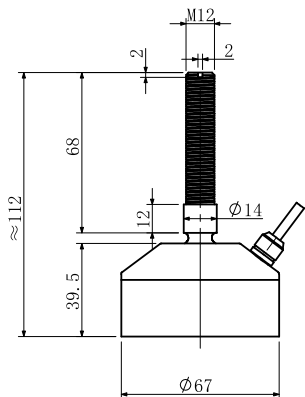
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	kg/t	250,500kg; 1,1.5,5,2.5t	
满量程位移量 Deflection at Full Scale	mm	<0.04	
固有频率 Natural Frequency	Hz	>3K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	φ5x3m	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.1	
线性误差 Non-linearity	%	≤0.1	
相对滞后 Hysteresis	%	≤0.1	
重复误差 Repeatability	%	≤0.05	
负载蠕变 Creep (30 min)	%	≤0.1	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
满量程输出 Rated Output	mV/V	2.0±1%	
激励电压 Excitation Voltage	V(DC)	5~12	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

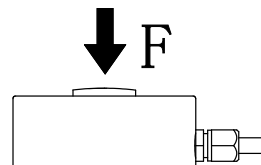
安装尺寸 Dimensions



FA142



受力方向 Load Direction



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters

额定量程 Nominal Capacity	kg	100,200,300,500,1000,2000kg
满量程位移量 Deflection at Full Scale	mm	<0.036
固有频率 Natural Frequency	Hz	>5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向

传感器精度参数 Sensor Accuracy Parameters

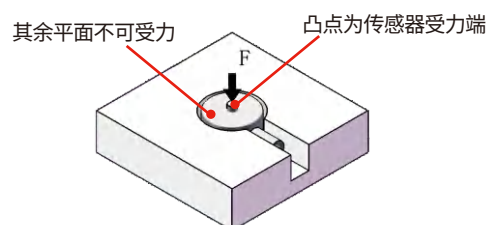
综合精度 Combined Error	%	≤0.3
线性误差 Non-linearity	%	≤0.3
相对滞后 Hysteresis	%	≤0.3
重复误差 Repeatability	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.3
温度漂移 Temperature Effect on Output	%	0.1%/10°C

传感器电气参数 Electrical Parameters of the Sensor

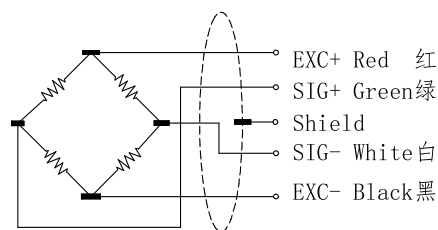
满量程输出 Rated Output	mV/V	1.5±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装方式 Installation

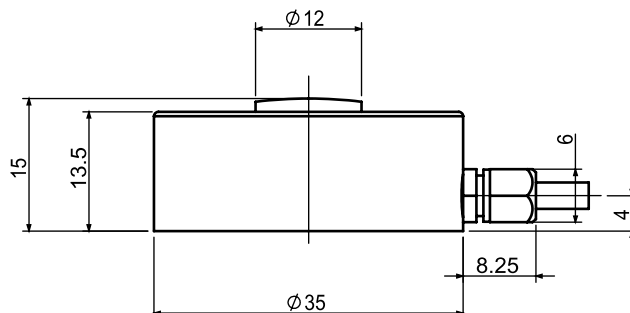
●开孔嵌入式安装



接线图 Wiring



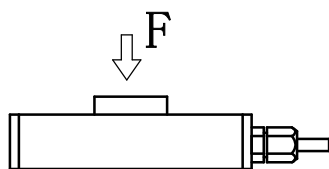
安装尺寸 Dimensions



FA145

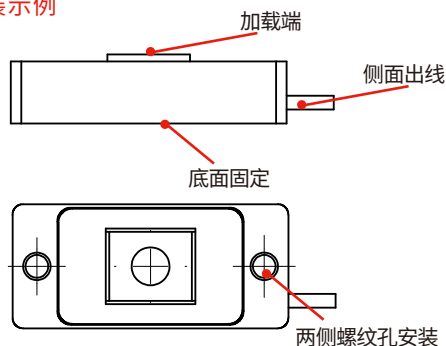
微型压力传感器

受力方向 Load Direction

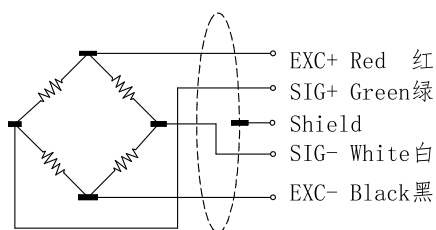


安装方式 Installation

●安装示例



接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters

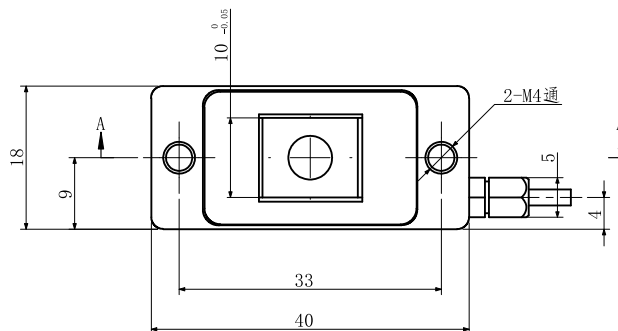
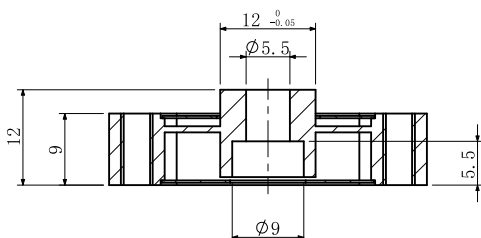
额定量程 Nominal Capacity	kg	20,50kg
满量程位移量 Deflection at Full Scale	mm	0.042
固有频率 Natural Frequency	Hz	3.8K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向

传感器精度参数 Sensor Accuracy Parameters

综合精度 Combined Error	%	≤0.5
线性误差 Non-linearity	%	≤0.5
相对滞后 Hysteresis	%	≤0.3
重复误差 Repeatability	%	≤0.2
负载蠕变 Creep (30 min)	%	≤0.2
温度漂移 Temperature Effect on Output	%	0.1%/10°C

满量程输出 Rated Output	mV/V	1.5±30%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

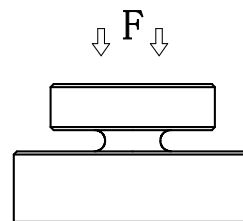
安装尺寸 Dimensions



FA184

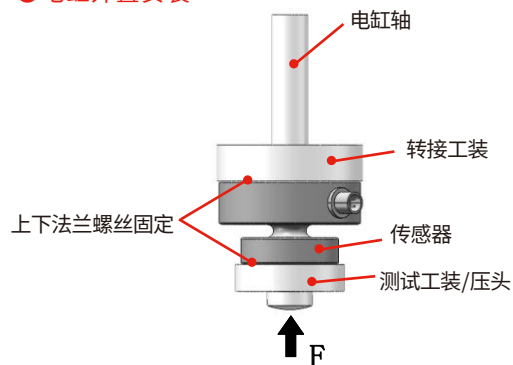


受力方向 Load Direction

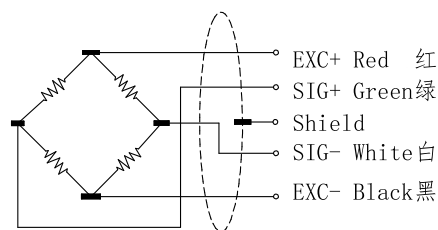


安装方式 Installation

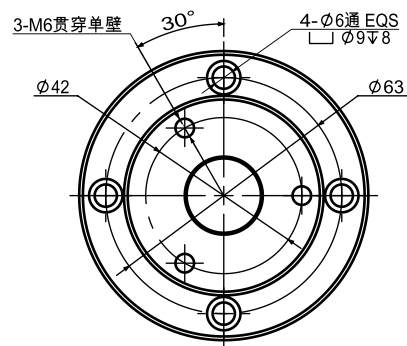
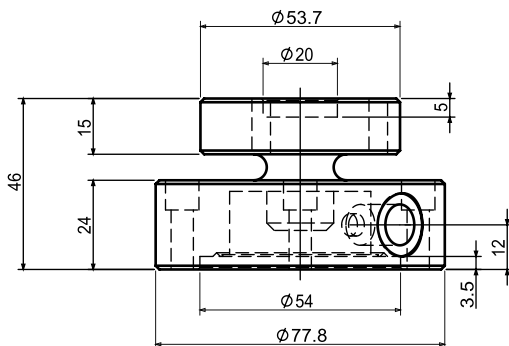
● 电缸外置安装



接线图 Wiring



安装尺寸 Dimensions

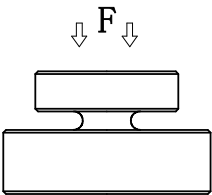


FA1015

微型压力传感器

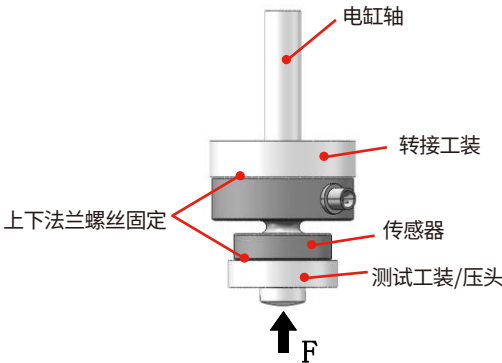


受力方向 Load Direction

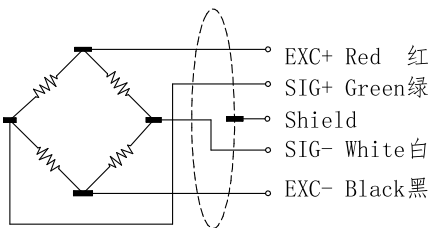


安装方式 Installation

●电缸外置安装



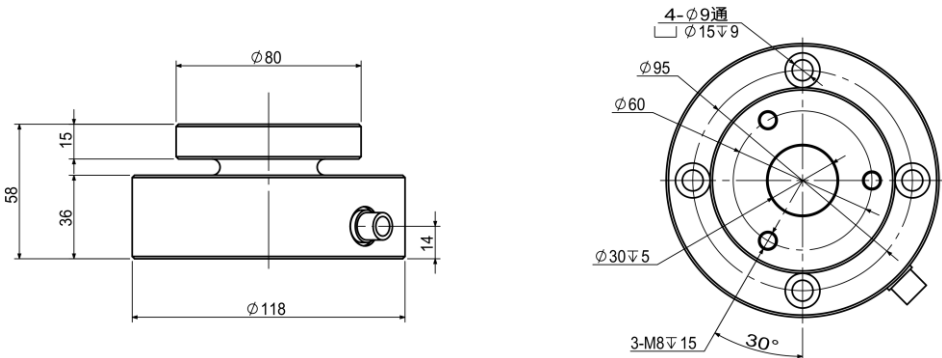
接线图 Wiring



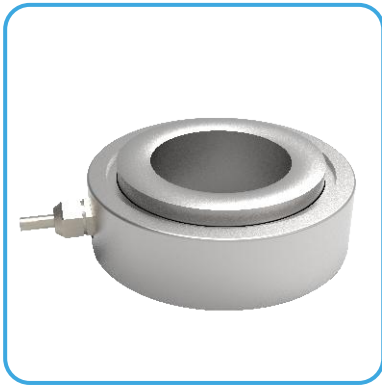
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters			
额定量程 Nominal Capacity	t	5,10t	
满量程位移量 Deflection at Full Scale	mm	<0.06	
固有频率 Natural Frequency	Hz	>5K	
过载能力 Safe Overload	%	150	
工作温度 Operating Temperature	°C	-20~80	
防护等级 Ingress Protection (IP)	IP	65	
电缆长度 Cable	M	航插	
弹性体材料 Spring Element Material	-	17-4PH	
测量方向 Loading Direction	-	压向	
传感器精度参数 Sensor Accuracy Parameters			
综合精度 Combined Error	%	≤0.1	
线性误差 Non-linearity	%	≤0.1	
相对滞后 Hysteresis	%	≤0.2	
重复误差 Repeatability	%	≤0.05	
负载蠕变 Creep (30 min)	%	≤0.05	
温度漂移 Temperature Effect on Output	%	0.1%/10°C	
满量程输出 Rated Output	mV/V	1.5±10%	
激励电压 Excitation Voltage	V(DC)	5~12	
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100	

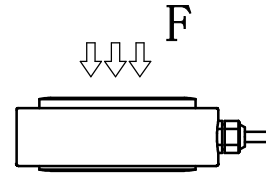
安装尺寸 Dimensions



FA1339



受力方向 Load Direction

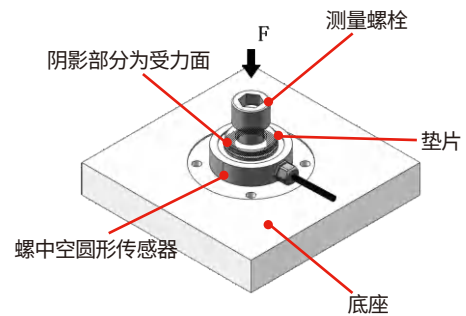


技术参数 Specifications

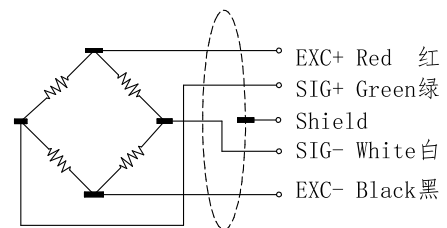
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	6,8,12,16,35,50,75t
满量程位移量 Deflection at Full Scale	mm	-
固有频率 Natural Frequency	Hz	-
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~60
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ4x3m(6~16t)/φ5.4x5m(35~75t)
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	压向
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤2
线性误差 Non-linearity	%	≤2
相对滞后 Hysteresis	%	≤2
重复误差 Repeatability	%	≤1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.2%/10°C
满量程输出 Rated Output	mV/V	1~2
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装方式 Installation

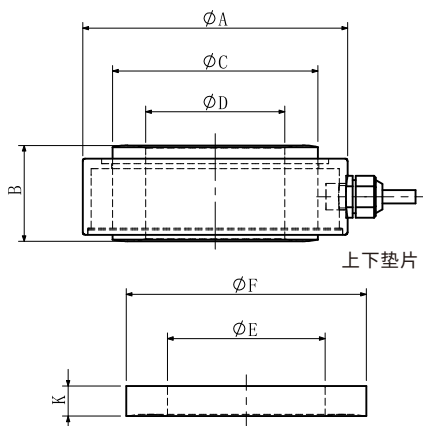
●中孔环形安装



接线图 Wiring



安装尺寸 Dimensions



Cap(t)	尺寸 (mm)						
T	A	B	C	D	K	E	F
6	29.03	16.0	20.0	10.3	4.0	10.3	28.0
8	31.4	16.0	23.6	12.3	4.0	12.5	30.0
12	36.0	16.0	27.0	16.3	4.0	16.5	34.0
16	46.0	17.0	34.0	20.3	5.0	21.0	45.0
35	56.0	25.0	45.0	24.5	6.0	24.5	52.0
50	67.0	29.0	56.0	30.8	7.5	31.4	65.0
75	80.0	29.0	66.0	37.0	9.0	37.5	73.0