拉压力传感器

Spoke Load Cell

本公司自主生产拉压力传感器，尺寸小巧，结构多样，安装方式采用螺杆或螺纹孔固定。激光焊接处理，IP等级高。采用电阻应变式原理，响应频率快，安全性高，使用寿命长。
(仅展示部分常规品，支持非标定制。)

Tension and Compression Sensor:
Our company specializes in the independent production of compact presure sensors. featuring diverse structures and offeringinstallation options using screw or threaded hole fixation. Sensors undergo laser welding treatnent, with high IP rating. Usingresistance strain gauge principle, fast response frequency, high safety, long service life.
(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:
插拔力测试机、焊接机、冷热压贴膜机、键盘按钮手感度测试仪、料斗秤、力值试验机等拉压力测试以及自动化设备和测试领域。

Applications:
Inserting and pulling force testing machine, welding machine, hot and cold pressing film machine, keyboard button feel tester,hopper scale, force value testing machine and other tensile pressure testing and automation equipment and testing fields.

专业生产传感器

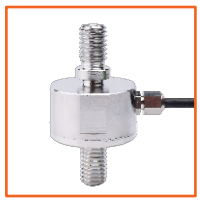
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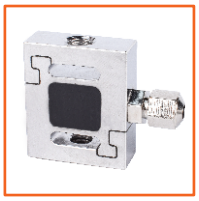

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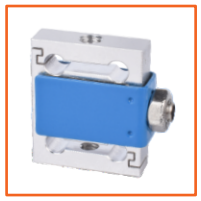

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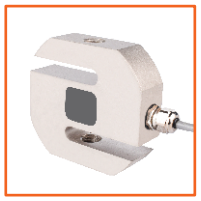

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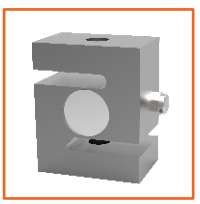

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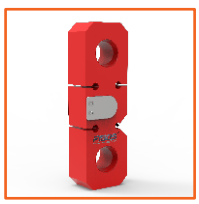

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Tension and compression load cell

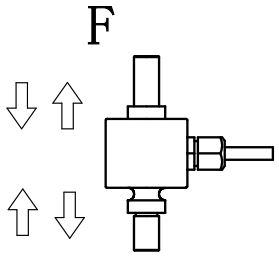
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技术参数 Specifications

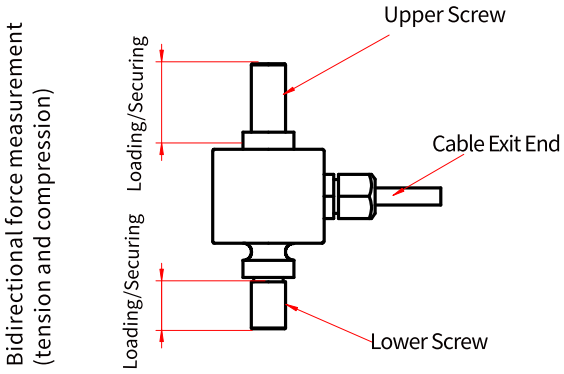
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	50,100,200,500,1000N
满量程位移量 Deflection at Full Scale	mm	＜0.014
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
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±20%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

受力方向 Load Direction

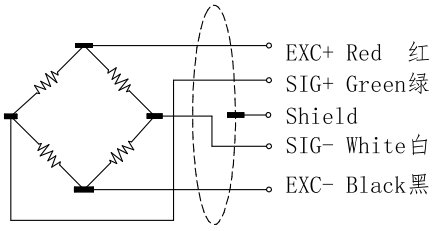


安装方式 Installation

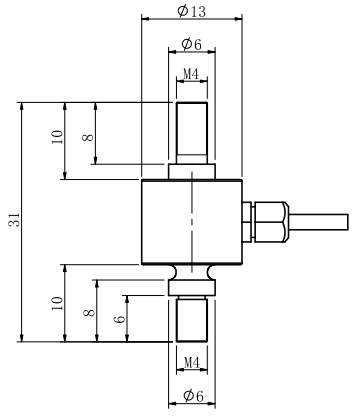
●螺杆安装 Screw Installation



接线图 Wiring

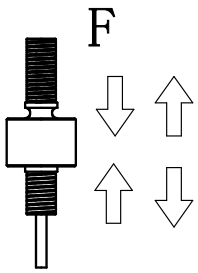


安装尺寸 Dimensions



FA202

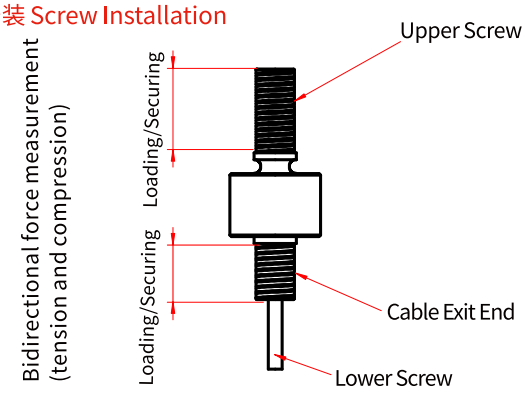
受力方向 Load Direction





安装方式 Installation

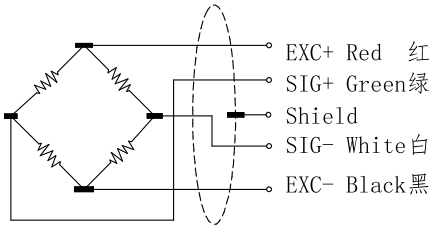
●螺杆安装 Screw Installation



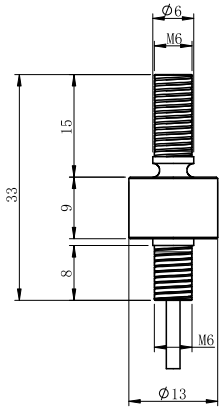
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N/kN	50,100,150,200,300,500N, 1,2,3,5kN
满量程位移量 Deflection at Full Scale	mm	＜0.024
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2/φ3×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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)	%	≤0.5
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.0±20%
激励电压 Excitation Voltage	V(DC)	5~10
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

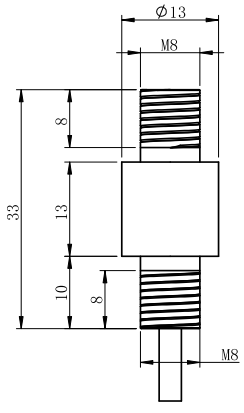
接线图 Wiring



安装尺寸 Dimensions



20N~1000N



2kN~5kN

Tension and compression load cell

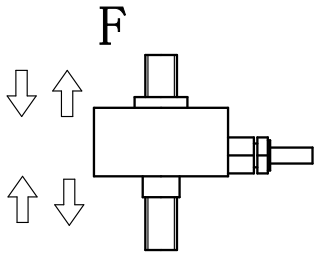
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技术参数 Specifications

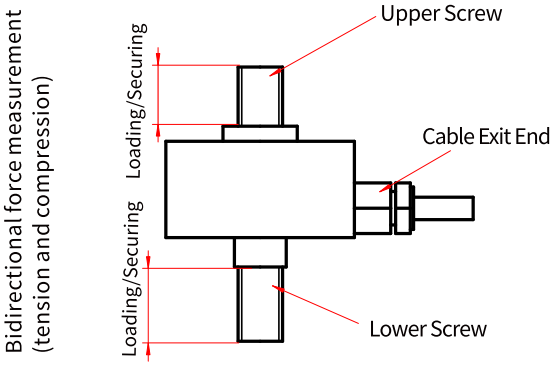
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	50,100,200,500,1000,2000N
满量程位移量 Deflection at Full Scale	mm	＜0.06
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

受力方向 Load Direction

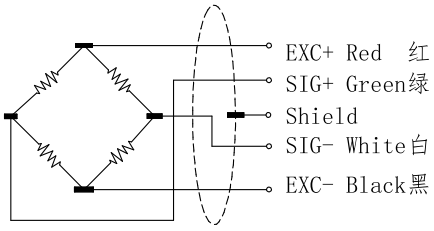


安装方式 Installation

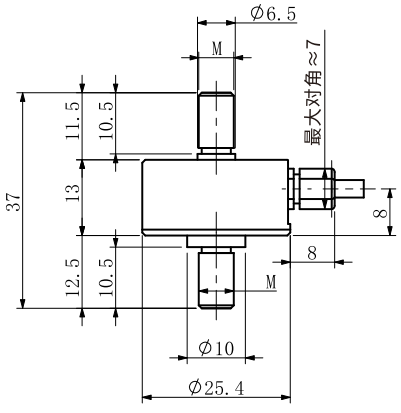
●螺杆安装 Screw Installation



接线图 Wiring



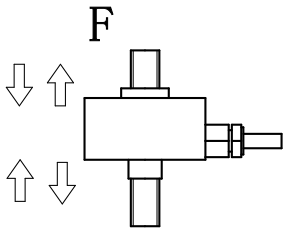
安装尺寸 Dimensions

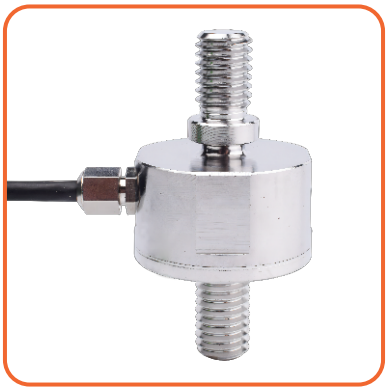


CAP(N)	M
50~500	M5X0.8
1000~2000	M6X1

FA204

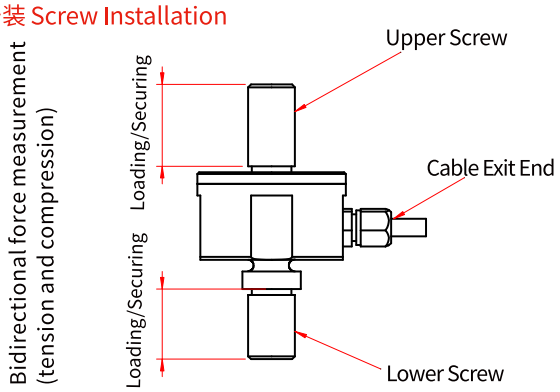
受力方向 Load Direction





安装方式 Installation

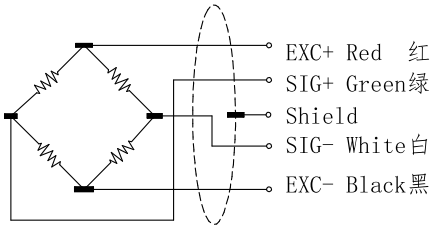
●螺杆安装 Screw Installation



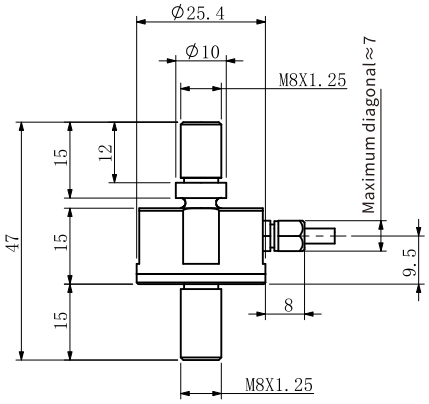
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	2000,5000N
满量程位移量 Deflection at Full Scale	mm	＜0.06
固有频率 Natural Frequency	Hz	＞2K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
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
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions



Tension and compression load cell

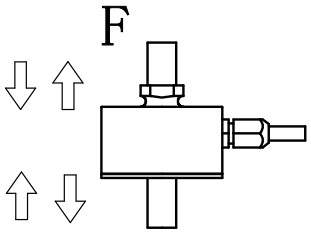
FA205



技术参数 Specifications

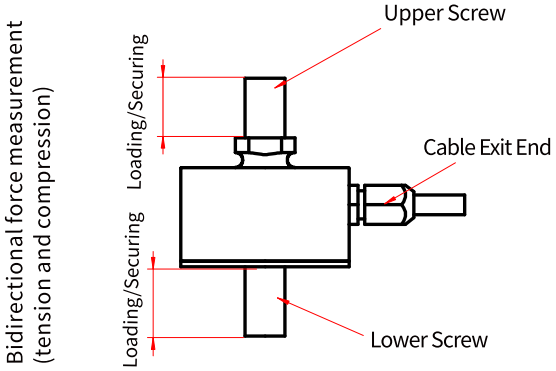
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	50,100,200,500,1000kg
满量程位移量 Deflection at Full Scale	mm	＜0.038
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65/68 (Optional)
电缆长度 Cable	M	φ4×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.8±20%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

受力方向 Load Direction

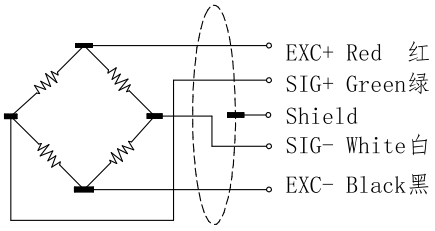


安装方式 Installation

●螺杆安装 Screw Installation

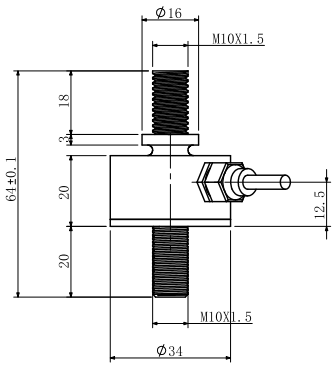


接线图 Wiring

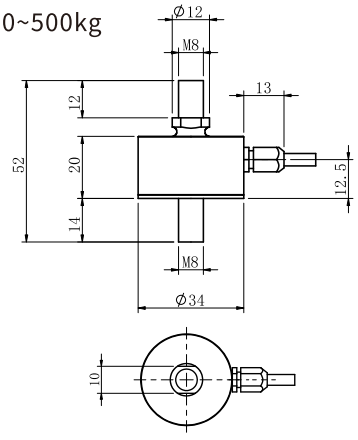


安装尺寸 Dimensions

1t

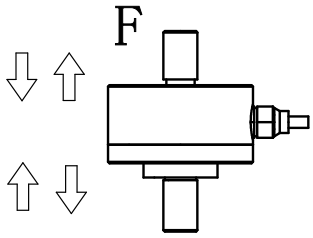


50~500kg



FA206

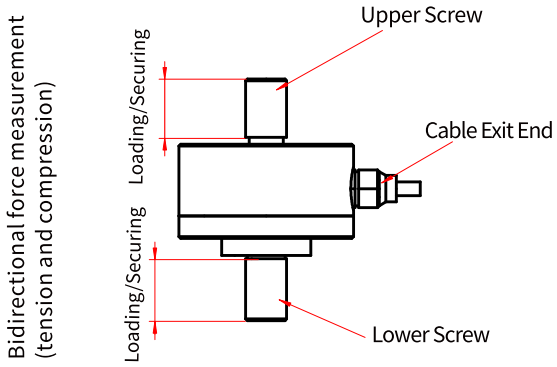
受力方向 Load Direction





安装方式 Installation

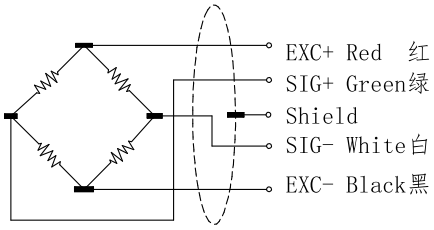
●螺杆安装 Screw Installation



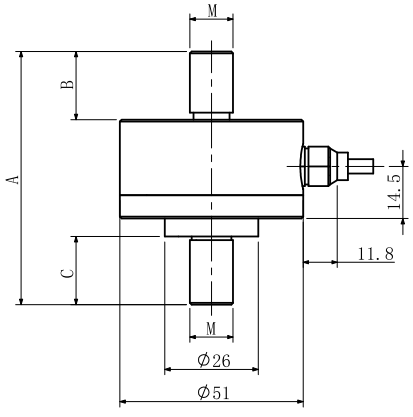
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	0.1,0.2,0.5,1,2,5t
满量程位移量 Deflection at Full Scale	mm	＜0.058
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~80
防护等级 Ingress Protection (IP)	IP	65/68(Optional)
电缆长度 Cable	M	ϕ4×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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℃
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

接线图 Wiring



安装尺寸 Dimensions



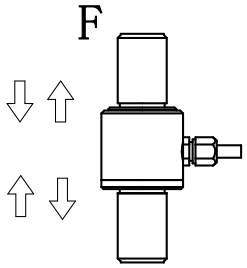
CAP(t)	A	B	C	M
0.1,0.2,0.5,1,2	71	19	18	M12X1.75
5	86	27	25	M16X2

Tension and compression load cell

FA207



受力方向 Load Direction

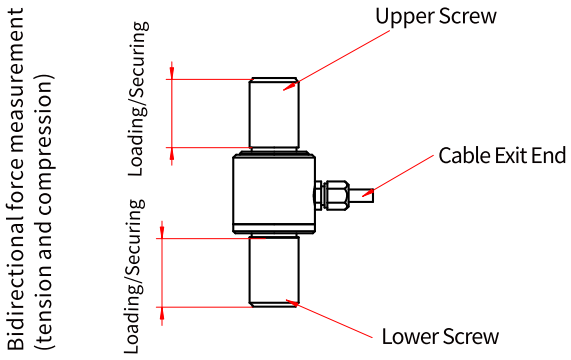


技术参数 Specifications

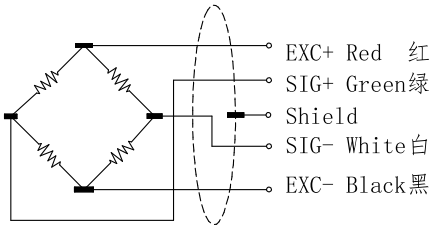
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	1, 2t
满量程位移量 Deflection at Full Scale	mm	＜0.033
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ3×3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
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±10%
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

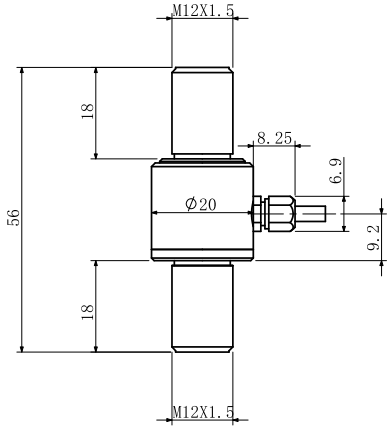
●螺杆安装 Screw Installation



接线图 Wiring

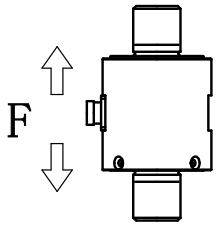


安装尺寸 Dimensions



FA233

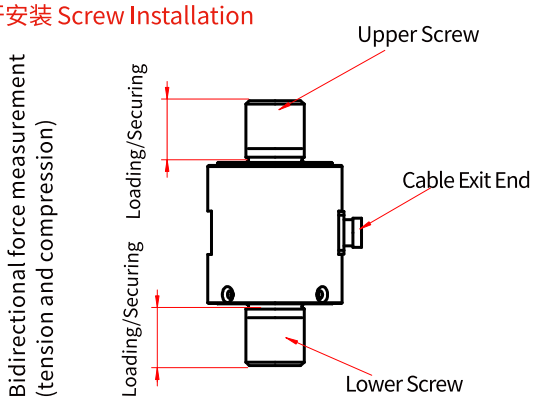
受力方向 Load Direction





安装方式 Installation

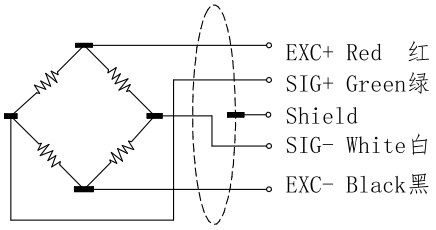
●螺杆安装 Screw Installation



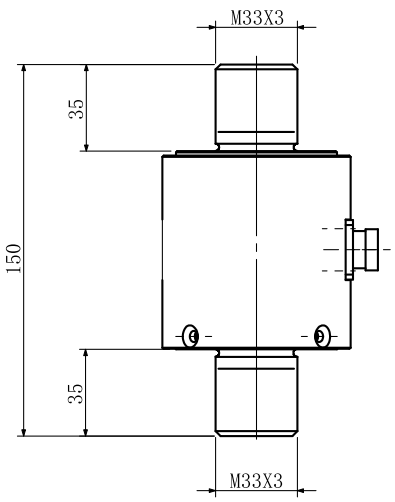
技术参数 Specifications

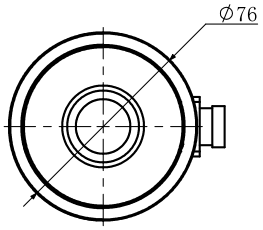
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	±20t
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	25m
弹性体材料 Spring Element Material		17-4PH
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
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)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
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

接线图 Wiring



安装尺寸 Dimensions



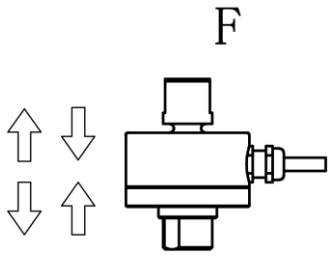


Tension and compression load cell

FA244

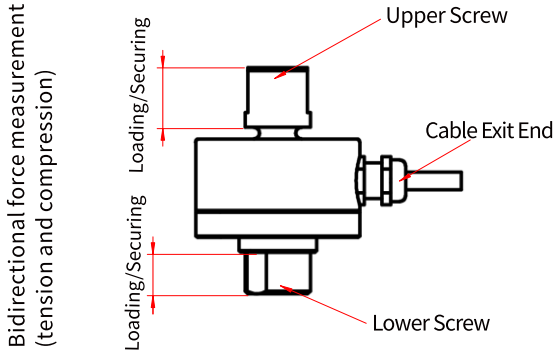


受力方向 Load Direction



安装方式 Installation

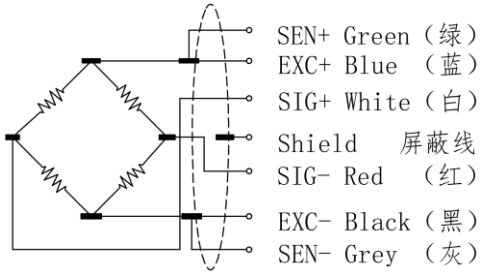
●螺杆安装 Screw Installation



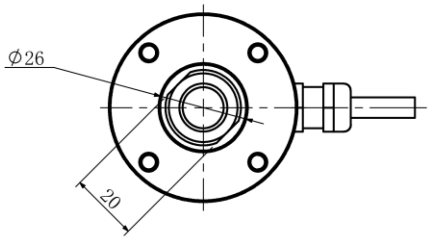
技术参数 Specifications

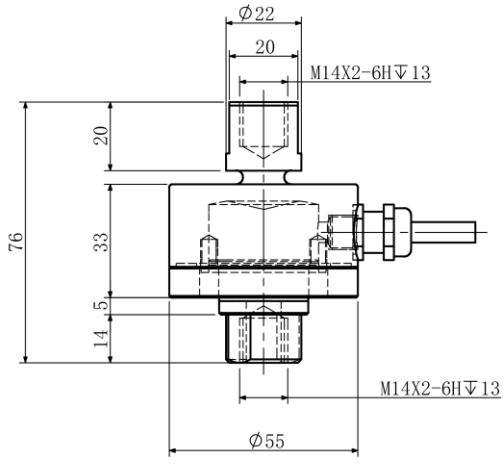
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	20kN
满量程位移量 Deflection at Full Scale	mm	0.05
过载能力 Safe Overload	%	120
工作温度 Operating Temperature	°C	-20~60
防护等级 Ingress Protection (IP)	IP	68
电缆长度 Cable	M	10m
弹性体材料 Spring Element Material		17-4PH
测量方向 Loading Direction		Tension & compression
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	%	≤0.2
负载蠕变 Creep (30 min)	%	≤0.1
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	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



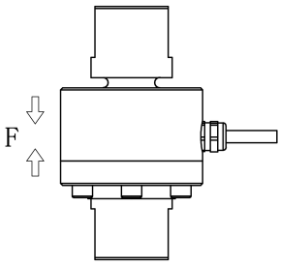
安装尺寸 Dimensions





FA280

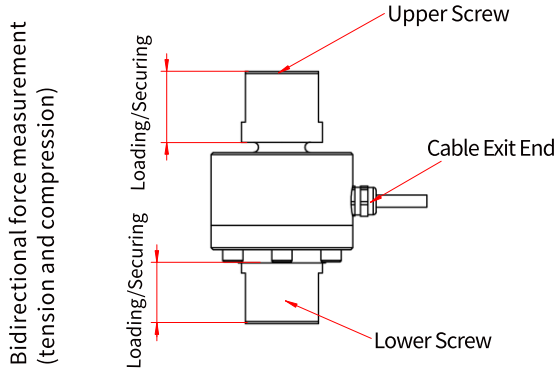
受力方向 Load Direction





安装方式 Installation

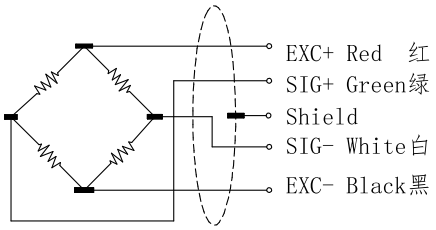
●螺杆安装 Screw Installation



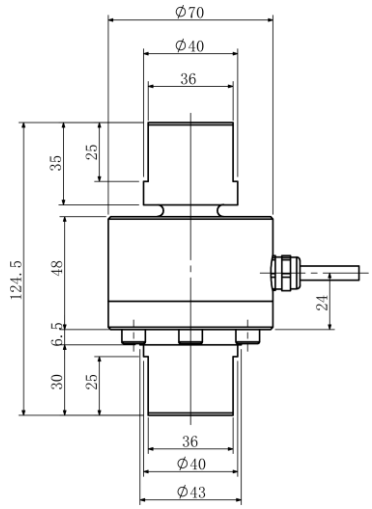
技术参数 Specifications

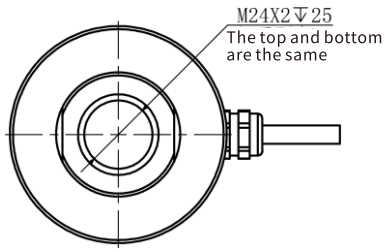
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	100kN
过载能力 Safe Overload	%	120
工作温度 Operating Temperature	℃	-20~60
防护等级 Ingress Protection (IP)	IP	65/68 (Optional)
电缆长度 Cable	M	ϕ6x5m
弹性体材料 Spring Element Material		17-4PH
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy 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	%	≤0.2
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	24
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



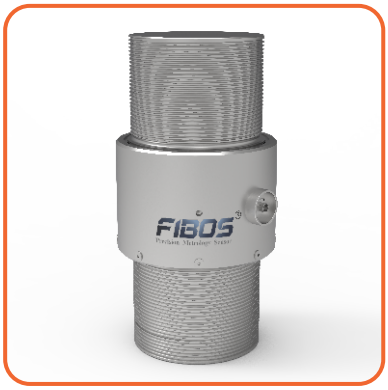
安装尺寸 Dimensions



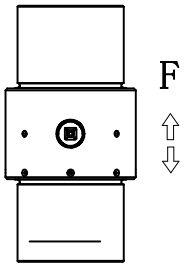


Tension and compression load cell

FA283



受力方向 Load Direction

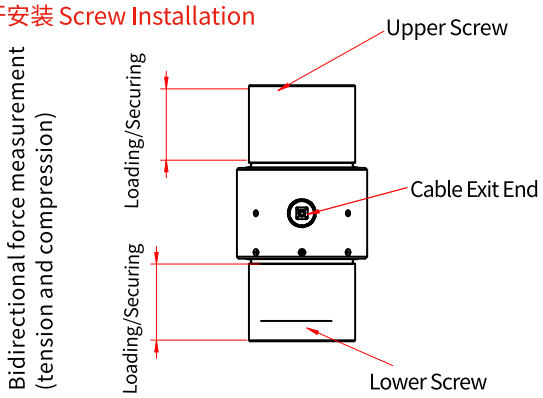


技术参数 Specifications

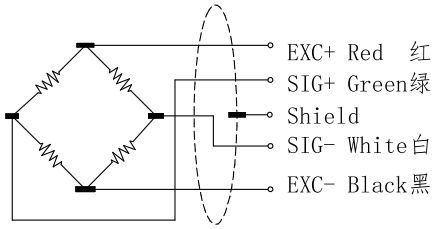
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	300t
满量程位移量 Deflection at Full Scale	mm	0.05
过载能力 Safe Overload	Hz	120
工作温度 Operating Temperature	%	-20~80
防护等级 Ingress Protection (IP)	°C	55
电缆长度 Cable	IP	ϕ6x5m
弹性体材料 Spring Element Material	M	17-4PH
测量方向 Loading Direction		Tension & compression
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	%	≤0.2
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	2.0±10%
激励电压 Excitation Voltage	V(DC)	24
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装方式 Installation

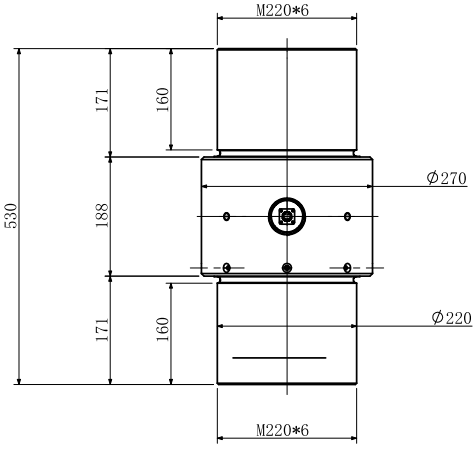
●螺杆安装 Screw Installation

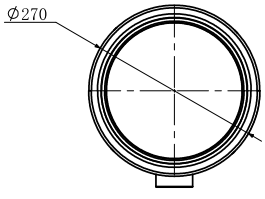


接线图 Wiring



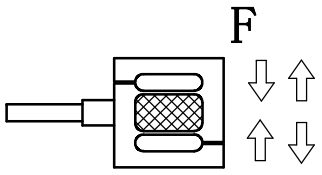
安装尺寸 Dimensions





FA301

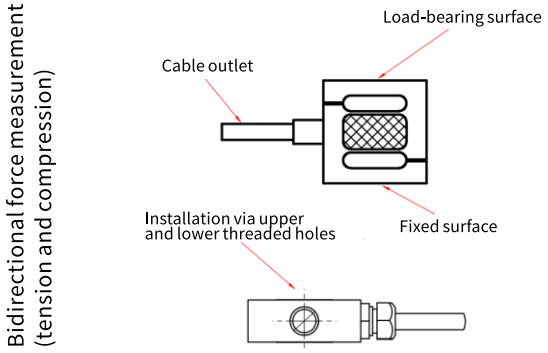
受力方向 Load Direction





安装方式 Installation

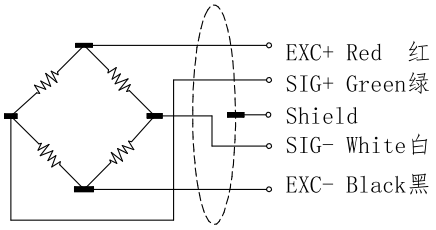
●S型安装 S-type mounting



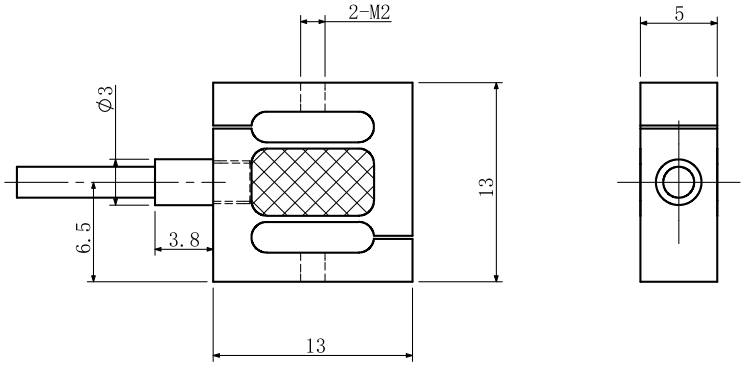
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	5,10,20,50,100,200N
满量程位移量 Deflection at Full Scale	mm	0.094
固有频率 Natural Frequency	Hz	>1K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
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	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions

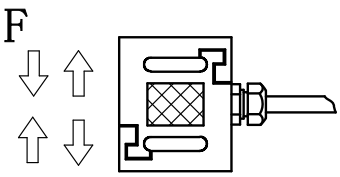


Tension and compression load cell

FA302



受力方向 Load Direction

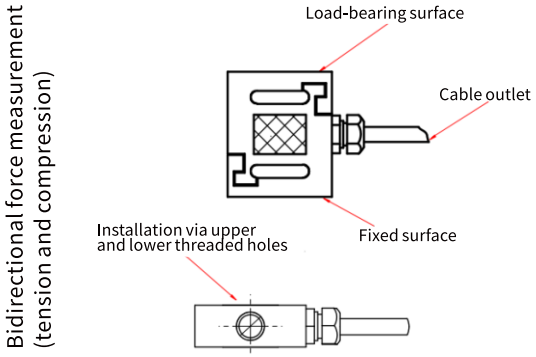


技术参数 Specifications

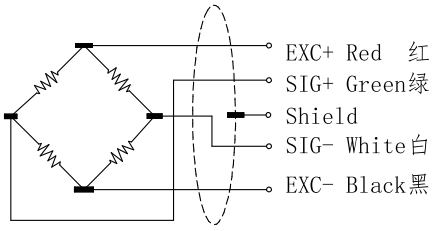
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	10,20,50,100,200,500,1000N
满量程位移量 Deflection at Full Scale	mm	0.099
固有频率 Natural Frequency	Hz	＞1k
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
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

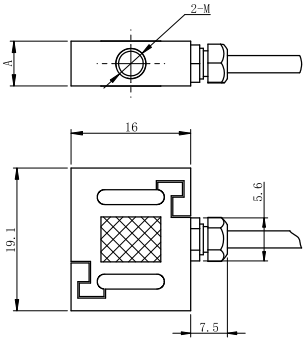
●S型安装 S-type mounting



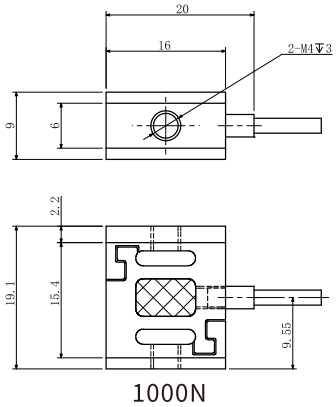
接线图 Wiring



安装尺寸 Dimensions



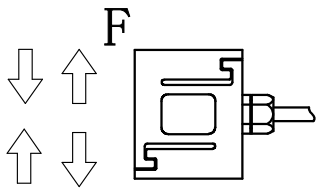
Cap(N)	A	M
10,20	5	M3
50,100,200,300,50	6	M4



1000N

FA302B

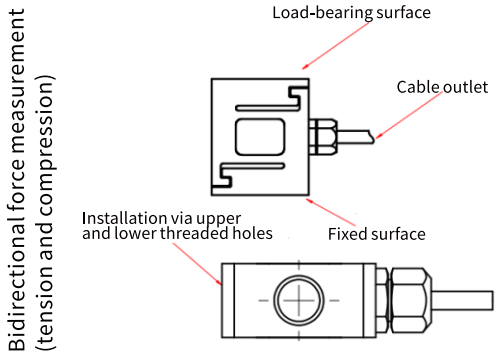
受力方向 Load Direction





安装方式 Installation

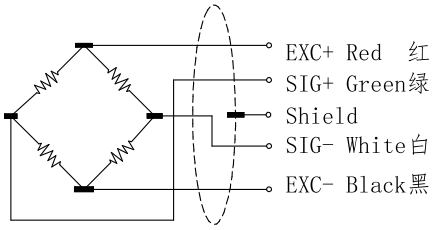
●S型安装 S-type mounting



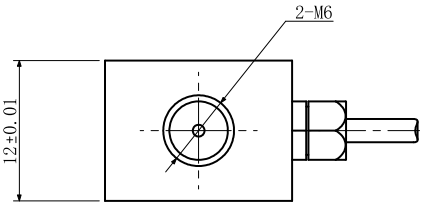
技术参数 Specifications

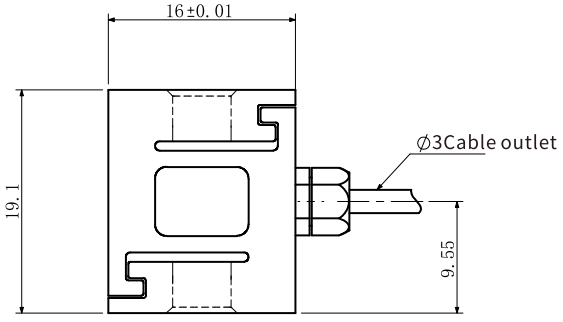
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	10,20,50,100,200kg
满量程位移量 Deflection at Full Scale	mm	0.09
固有频率 Natural Frequency	Hz	>1K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions



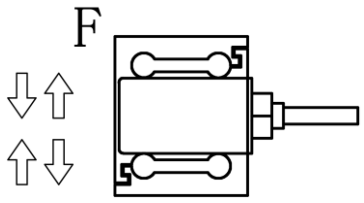


Tension and compression load cell

FA302L



受力方向 Load Direction

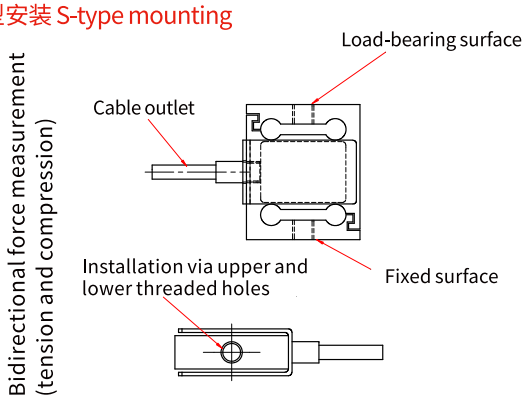


技术参数 Specifications

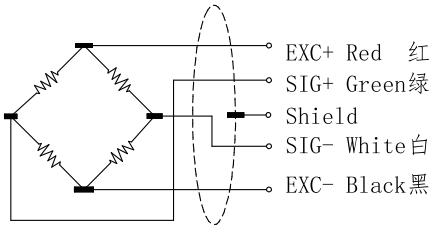
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	g/kg	200,500g;1kg
满量程位移量 Deflection at Full Scale	mm	0.089
固有频率 Natural Frequency	Hz	＞1k
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	φ2x3m
弹性体材料 Spring Element Material	-	17-4PH/Aluminium alloy
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.05
重复误差 Repeatability	%	≤0.05
负载蠕变 Creep (30 min)	%	≤0.05
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
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

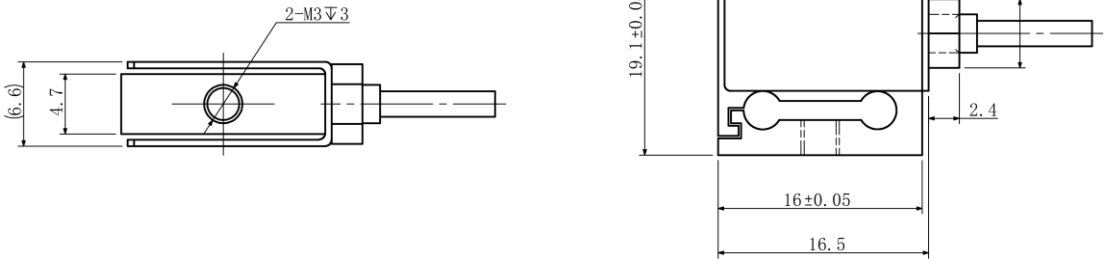
●S型安装 S-type mounting



接线图 Wiring

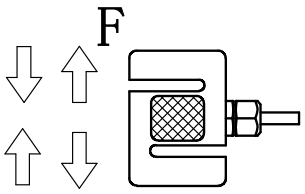


安装尺寸 Dimensions



FA303

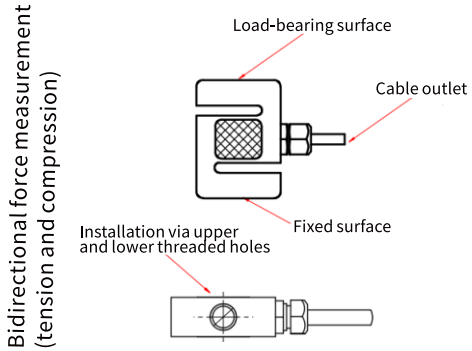
受力方向 Load Direction





安装方式 Installation

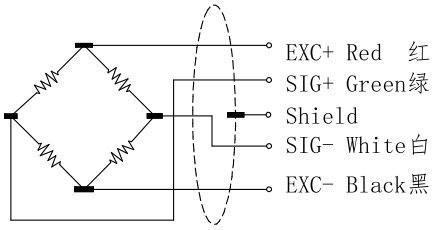
●S型安装 S-type mounting



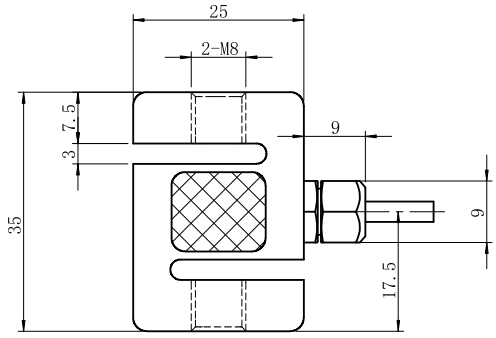
技术参数 Specifications

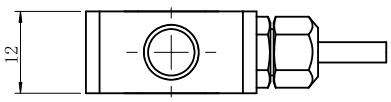
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	50,100,200,500,1000,2000N
满量程位移量 Deflection at Full Scale	mm	0.14
固有频率 Natural Frequency	Hz	>1K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.05
重复误差 Repeatability	%	≤0.05
负载蠕变 Creep (30 min)	%	≤0.05
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions



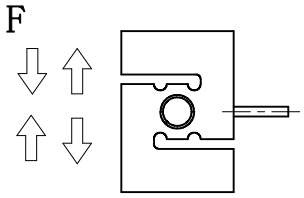


Tension and compression load cell

FA305

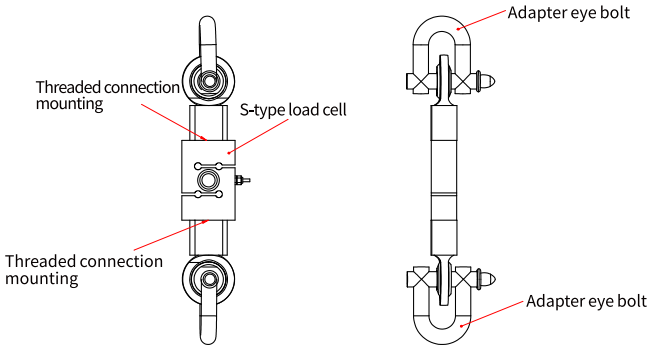


受力方向 Load Direction



安装方式 Installation

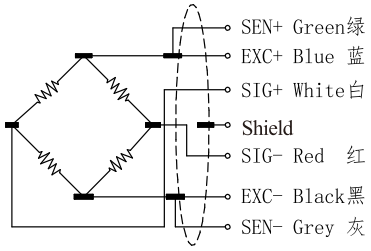
●S型安装 S-type mounting



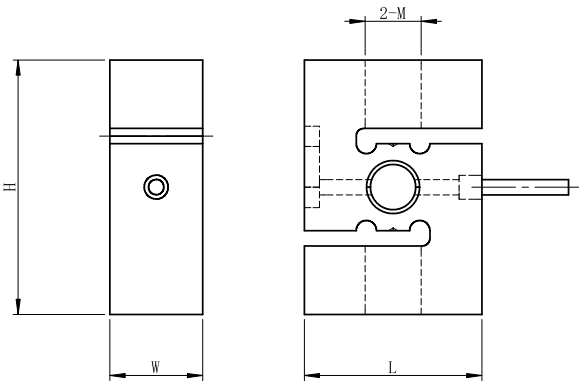
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	50,100,200,500,1000,2000,3000,5000kg
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-30~70
防护等级 Ingress Protection (IP)	IP	65/68(Optional)
电缆长度 Cable	M	ϕ5.4x3m
弹性体材料 Spring Element Material		17-4PH/Alloy steel
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.018
线性误差 Non-linearity	%	≤0.018
相对滞后 Hysteresis	%	≤0.018
重复误差 Repeatability	%	≤0.024
温度漂移 Temperature Effect on Output	%	0.014%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±0.25%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



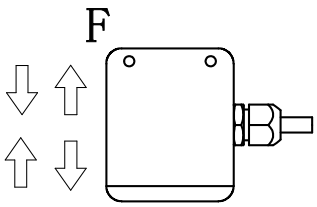
安装尺寸 Dimensions



Cap (kg)	L	H	W	M
50	50.8	63.5	25.4	M8
100,200	50.8	76.2	25.4	M12
500	57.2	87.3	31	M12
1000	57.2	87.3	31	M12
2000	69.8	100	36.5	M24X2
3000	69.8	100	36.5	M24X2
5000	76.2	114.3	36.5	M24X2

FA306

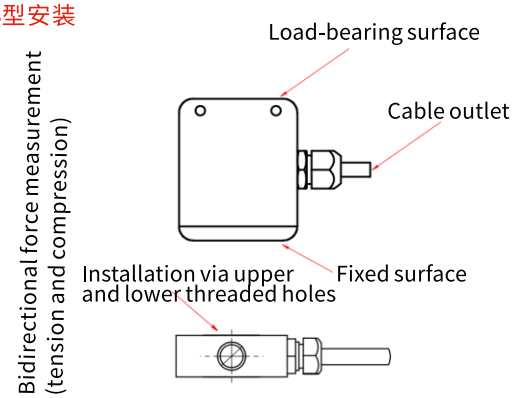
受力方向 Load Direction



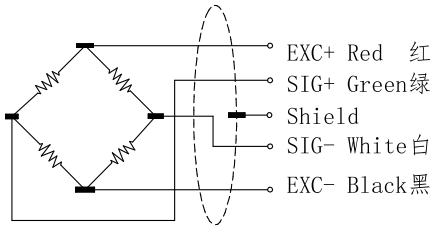


安装方式 Installation

●S型安装



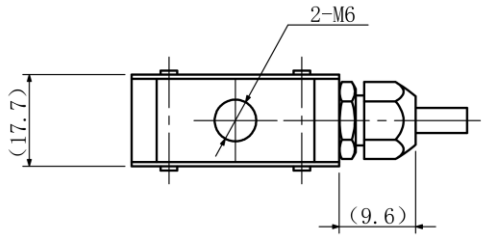
接线图 Wiring

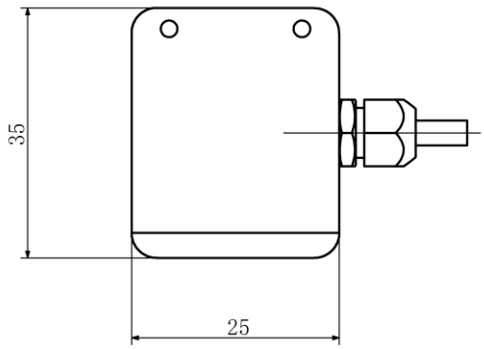


技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	10,20,50,100,150,200,500N
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
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		Tension & compression
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	%	≤0.05
重复误差 Repeatability	%	≤0.05
负载蠕变 Creep (30 min)	%	≤0.05
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
激励电压 Excitation Voltage	V(DC)	5~12V
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

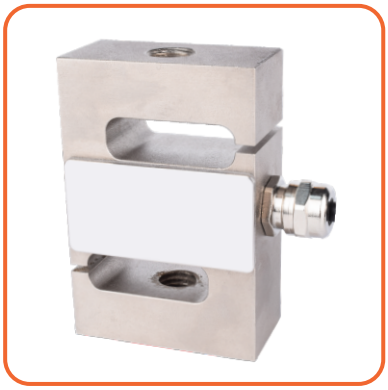
安装尺寸 Dimensions



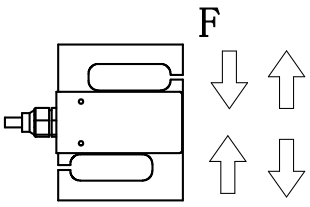


Tension and compression load cell

FA307



受力方向 Load Direction

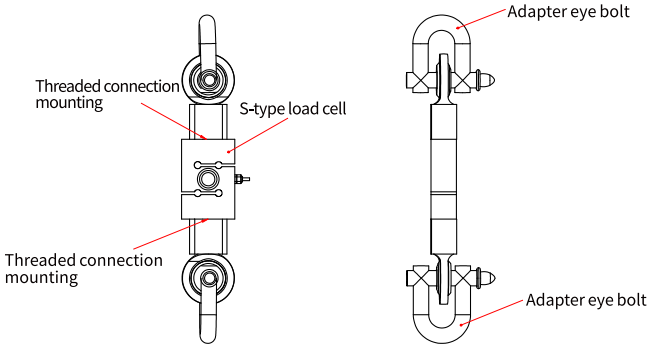


技术参数 Specifications

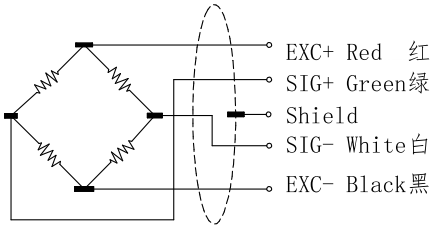
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg/t	25,50,100,200,250,500kg 0.75,1,1.5,2,2.5,5,10t
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-30~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ5x5m
弹性体材料 Spring Element Material		Alloy steel
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.03
线性误差 Non-linearity	%	≤0.03
相对滞后 Hysteresis	%	≤0.03
重复误差 Repeatability	%	≤0.03
负载蠕变 Creep (30 min)	%	≤0.024
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	2.0/3.0±1%
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

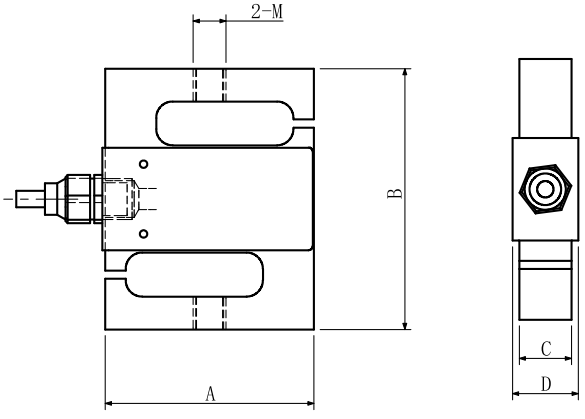
●S型安装 S-type mounting



接线图 Wiring



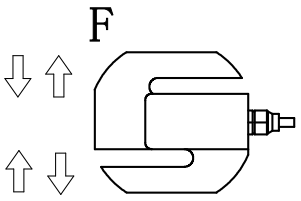
安装尺寸 Dimensions

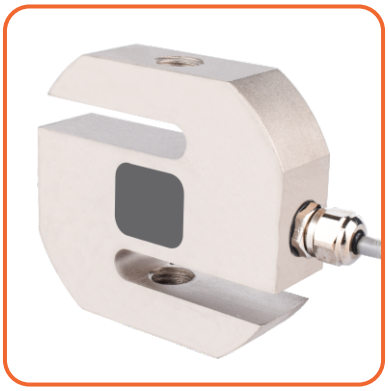


Cap (kg)	A	B	C	D	M
25,50	50.8	63.5	12.7	16.5	M8X1.25
100	50.8	76.2	19	23.8	M10X1.5
200,250,500,750	50.8	76.2	19	23.8	M12X1.75
1000,1500	50.8	76.2	25.4	35	M12X1.75
2000,2500,5000	76.2	108	25	31	M18X1.5
10000	127	177.8	50.4	57	M30X2

FA308

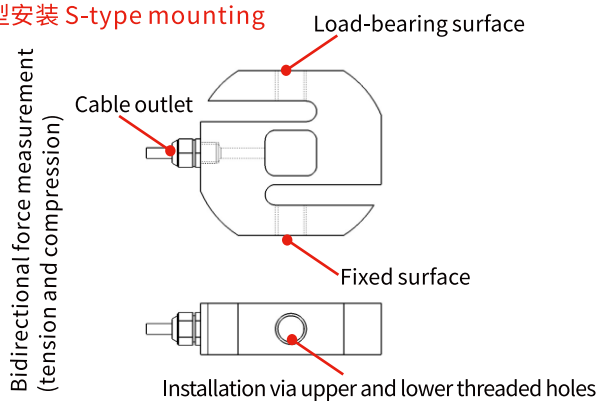
受力方向 Load Direction



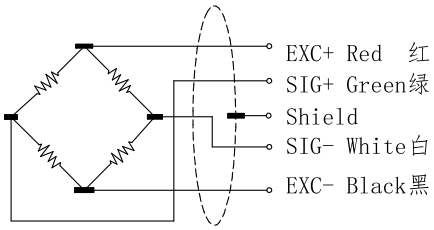


安装方式 Installation

●S型安装 S-type mounting



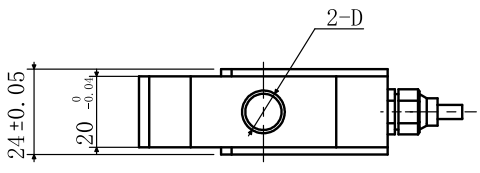
接线图 Wiring



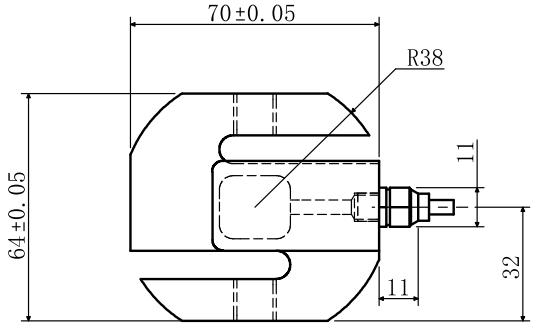
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	100,200,300,400,500kg
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-30~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ5x3m
弹性体材料 Spring Element Material		Alloy steel
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.03
线性误差 Non-linearity	%	≤0.03
相对滞后 Hysteresis	%	≤0.03
重复误差 Repeatability	%	≤0.02
负载蠕变 Creep (30 min)	%	≤0.03
温度漂移 Temperature Effect on Output	%	0.02%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±1%
激励电压 Excitation Voltage	V(DC)	5~15
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装尺寸 Dimensions

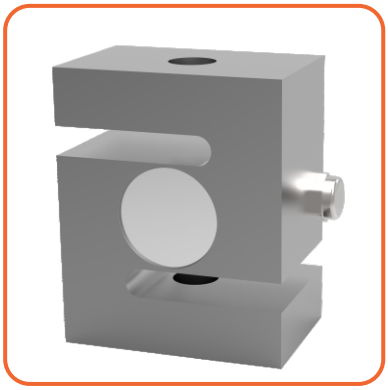


Cap (kg)	D
100	M12X1.75
200	M12X1.75
300	M12X1.75
400	M12X1.75
500	M12X1.75

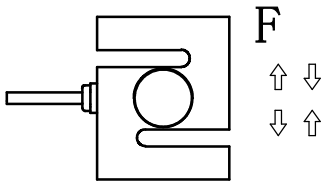


Tension and compression load cell

FA329



受力方向 Load Direction

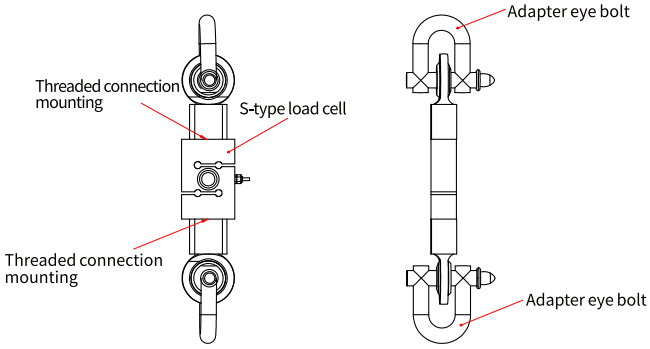


技术参数 Specifications

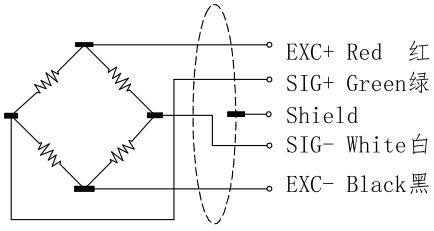
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg/t	50,100,200,300,500kg 1, 2,3,5t
满量程位移量 Deflection at Full Scale	mm	0.22
固有频率 Natural Frequency	Hz	＞600
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	6m
弹性体材料 Spring Element Material	-	Alloy steel
测量方向 Loading Direction	-	Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.02
线性误差 Non-linearity	%	≤0.02
相对滞后 Hysteresis	%	≤0.02
重复误差 Repeatability	%	≤0.02
负载蠕变 Creep (30 min)	%	≤0.01
温度漂移 Temperature Effect on Output	%	0.02%/10°C
传感器电气参数 Electrical Parameters		
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

安装方式 Installation

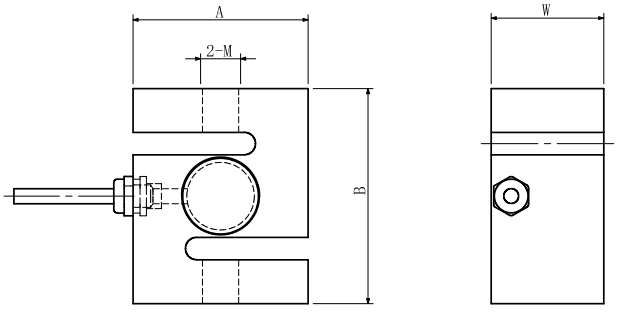
●S型安装 S-type mounting



接线图 Wiring



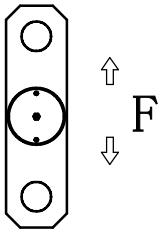
安装尺寸 Dimensions



Cap (kg)	A	B	W	M
50~200	50.8	77	18.5	M10X1
300	50.8	77	24.4	M10X1
500	50.8	77	24.4	M12X1
1000	50.8	77	36	M12X1
2000	70	86	45	M16X1.5
3000	80	100	50	M18X1.5
5000	92	130	58	M20X1.5

FA340

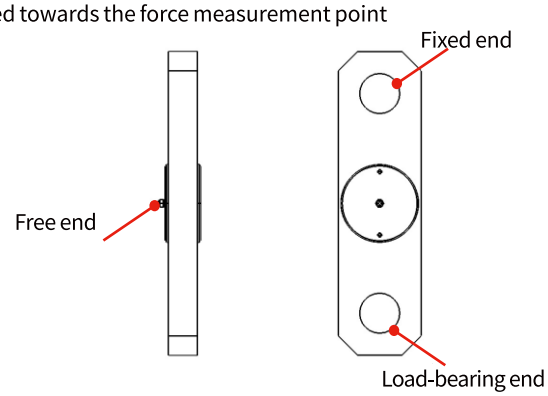
受力方向 Load Direction





安装方式 Installation

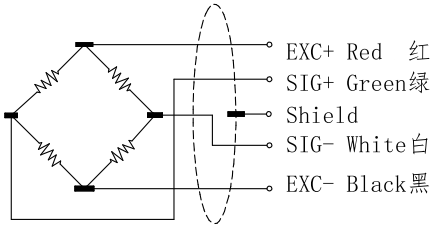
Pulled towards the force measurement point



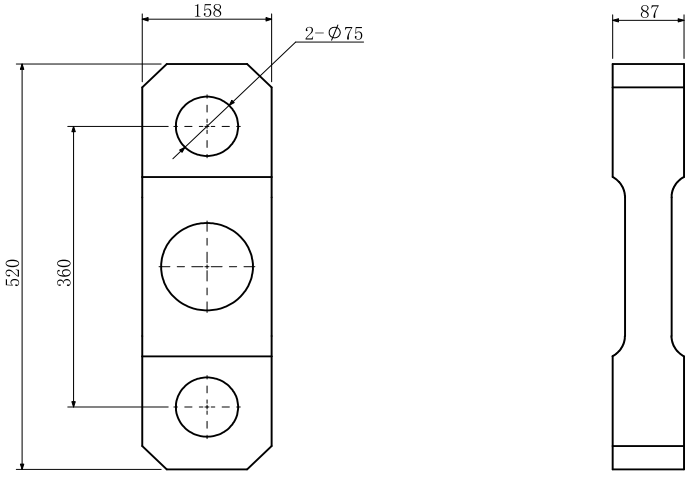
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	60t
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-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		Alloy steel
测量方向 Loading Direction		Tension & compression
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	%	≤0.1
重复误差 Repeatability	%	≤0.05
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.05%/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

接线图 Wiring



安装尺寸 Dimensions



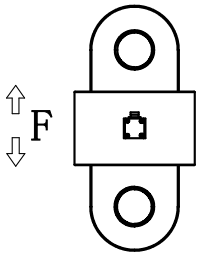
FA384



技术参数 Specifications

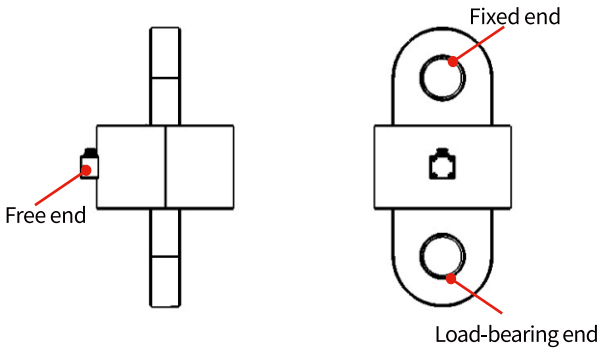
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	70t
过载能力 Safe Overload	%	120
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	3m
弹性体材料 Spring Element Material		Alloy steel
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
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	2.0±20%
激励电压 Excitation Voltage	V(DC)	5~10
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

受力方向 Load Direction

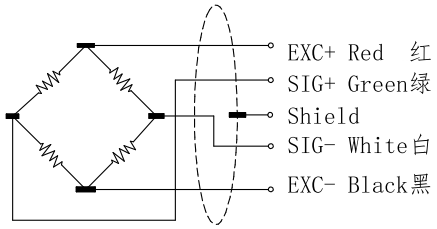


安装方式 Installation

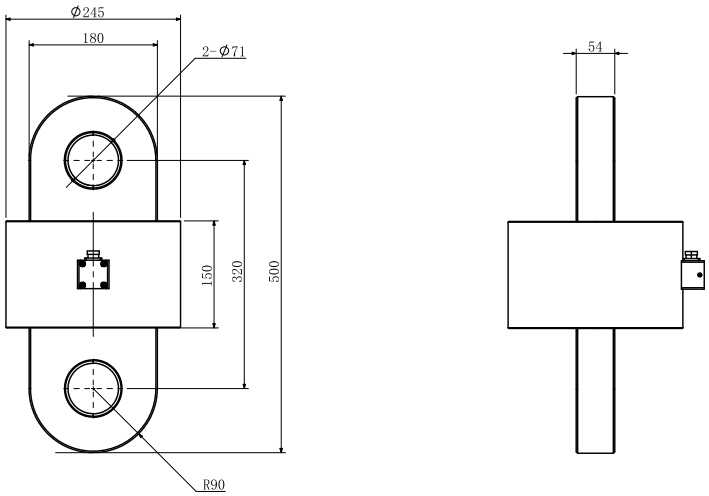
Pulled towards the force measurement point



接线图 Wiring

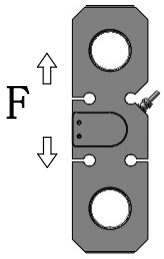


安装尺寸 Dimensions



FA386

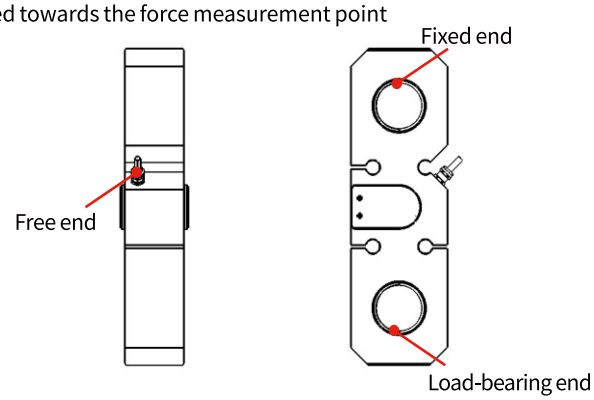
受力方向 Load Direction



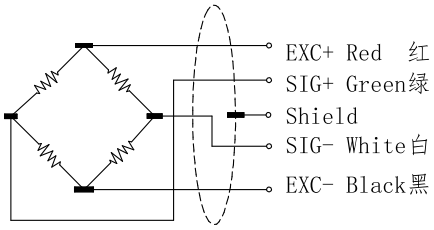


安装方式 Installation

Pulled towards the force measurement point



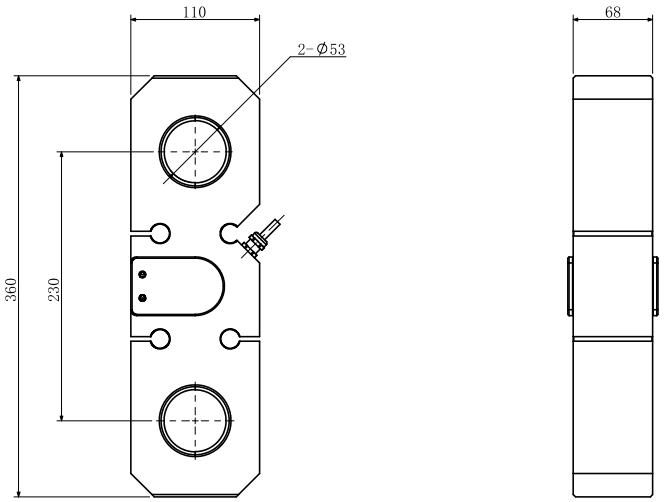
接线图 Wiring



技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	40t
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	68
电缆长度 Cable	M	30/120m
弹性体材料 Spring Element Material		Stainless steel
测量方向 Loading Direction		Tension & compression
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	%	0.05%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.6±10%
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



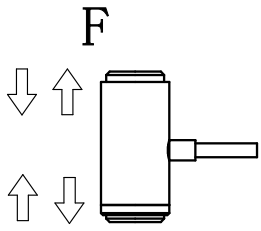
FA401



技术参数 Specifications

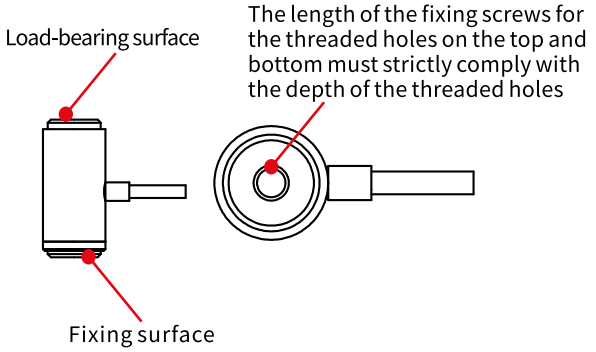
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	10,20,50,100，200N
满量程位移量 Deflection at Full Scale	mm	0.11
固有频率 Natural Frequency	Hz	＞1K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ2x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

受力方向 Load Direction

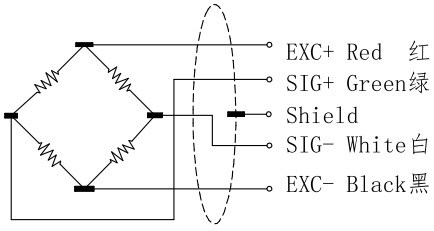


安装方式 Installation

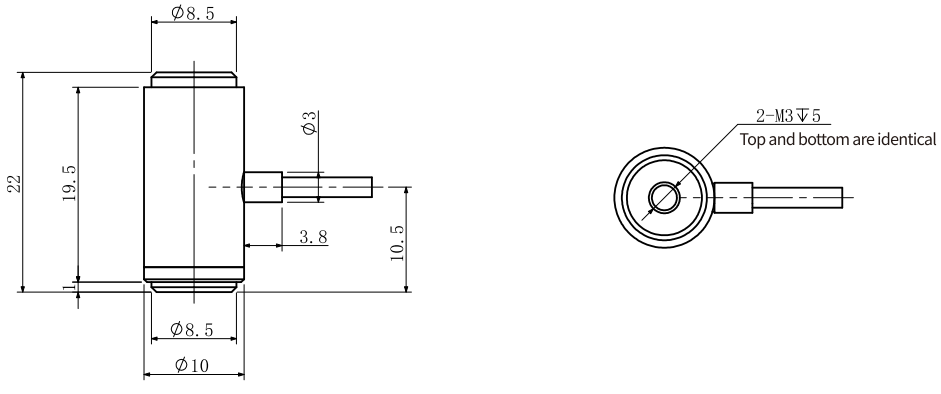
●Suitable for both tension and compression installation



接线图 Wiring

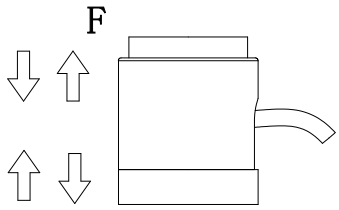


安装尺寸 Dimensions



FA401A

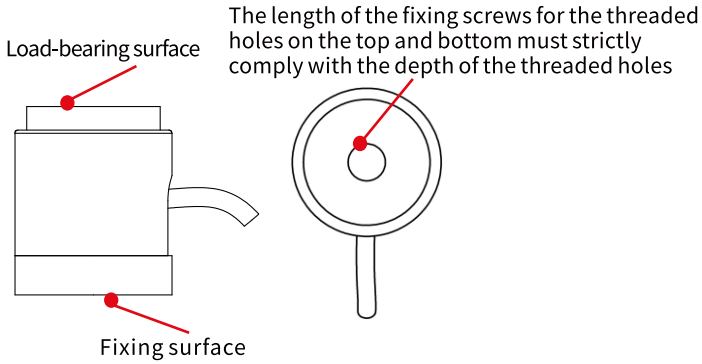
受力方向 Load Direction





安装方式 Installation

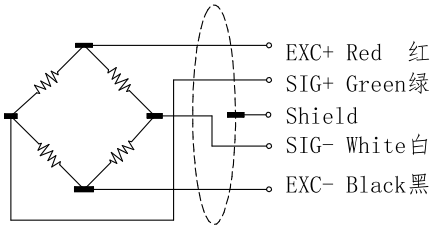
●Suitable for both tension and compression installation



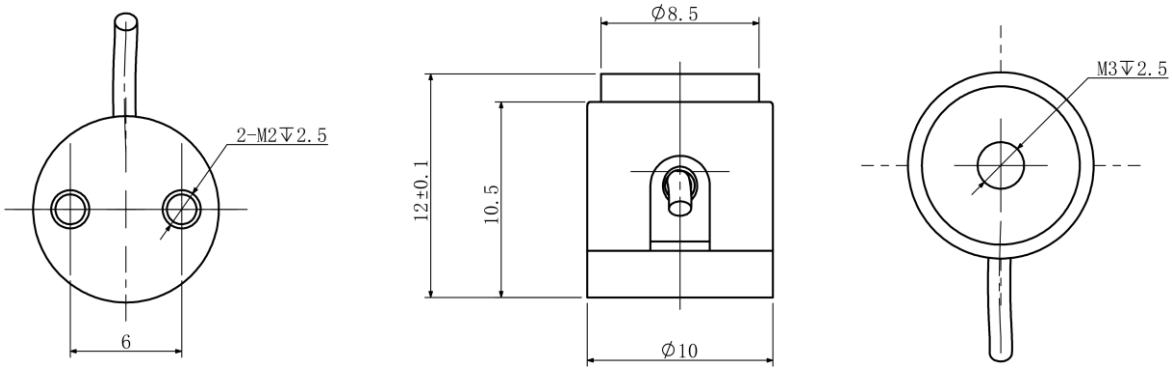
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kg	1,2,5,10,20kg
满量程位移量 Deflection at Full Scale	mm	0.04
固有频率 Natural Frequency	Hz	4868
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
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	-	Tension & compression
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	%	≤0.3
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℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions

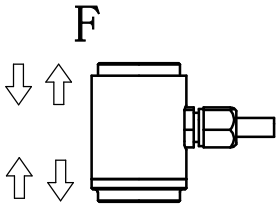


Tension and compression load cell

FA402



受力方向 Load Direction

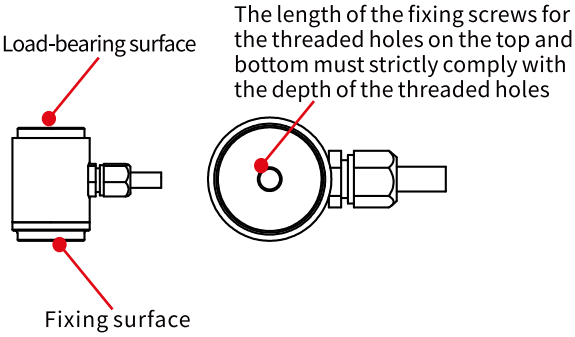


技术参数 Specifications

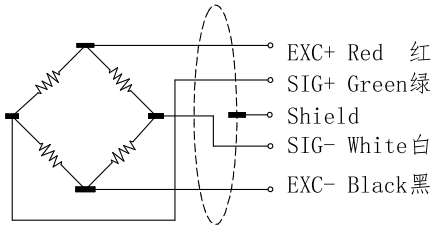
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	50,100, 200, 500N
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ2x3m
弹性体材料 Spring Element Material		17-4PH
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	≤0.1
线性误差 Non-linearity	%	≤0.1
相对滞后 Hysteresis	%	≤0.05
重复误差 Repeatability	%	≤0.05
负载蠕变 Creep (30 min)	%	≤0.05
温度漂移 Temperature Effect on Output	%	0.1%/10°C
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
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

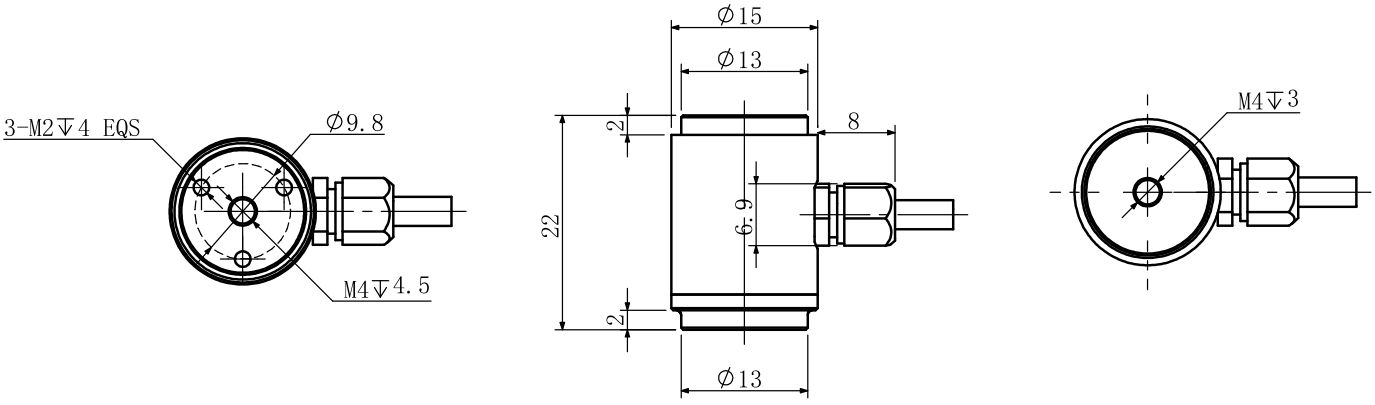
●Suitable for both tension and compression installation



接线图 Wiring

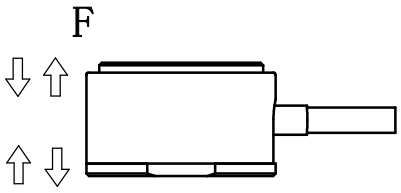


安装尺寸 Dimensions



FA402B

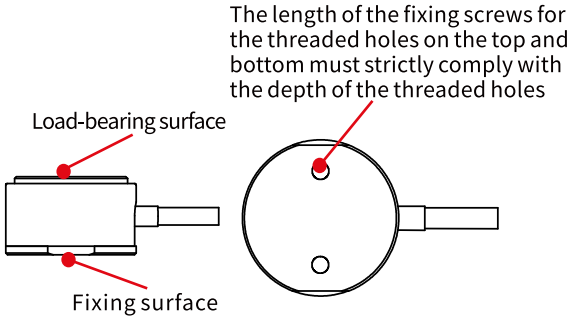
受力方向 Load Direction





安装方式 Installation

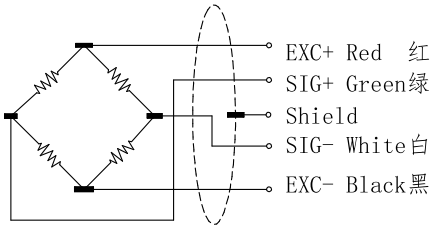
●Suitable for both tension and compression installation



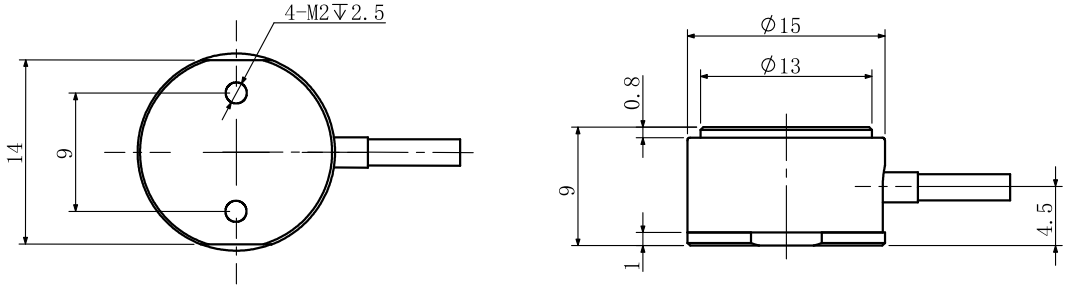
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	10,20,50,100,200N
满量程位移量 Deflection at Full Scale	mm	0.08
固有频率 Natural Frequency	Hz	＞1K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
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	-	Tension & compression
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	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions

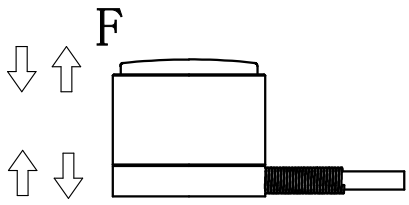


Tension and compression load cell

FA403



受力方向 Load Direction

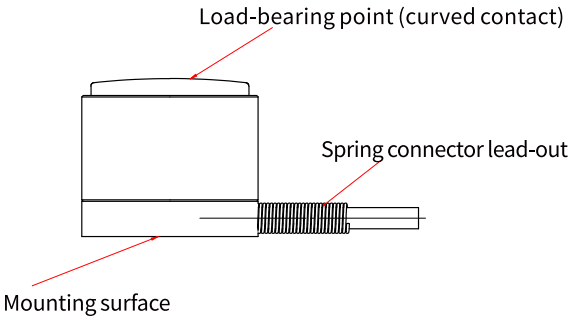


技术参数 Specifications

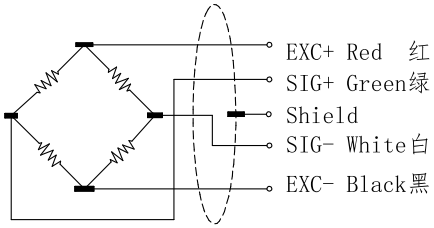
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	10,20,50,75,100,150kN
满量程位移量 Deflection at Full Scale	mm	0.06
固有频率 Natural Frequency	Hz	＞5K
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-20~70
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ2x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.5
重复误差 Repeatability	%	≤0.1
负载蠕变 Creep (30 min)	%	≤0.5
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
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

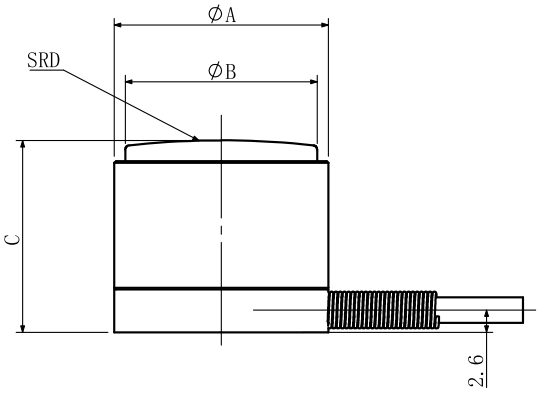
●Suitable for both tension and compression installation



接线图 Wiring



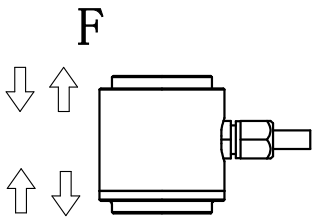
安装尺寸 Dimensions



Cap (kN)	A	B	C	D
10,20	15.9	13.4	16.5	100
50,75	22.4	20.4	22.4	100
100,150	31.8	28.9	28.7	125

FA404

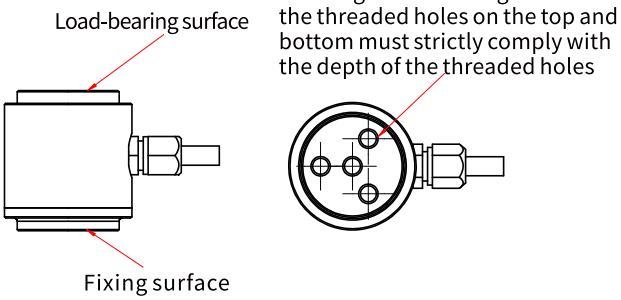
受力方向 Load Direction





安装方式 Installation

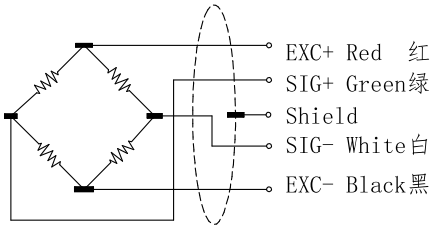
●Suitable for both tension and compression installation



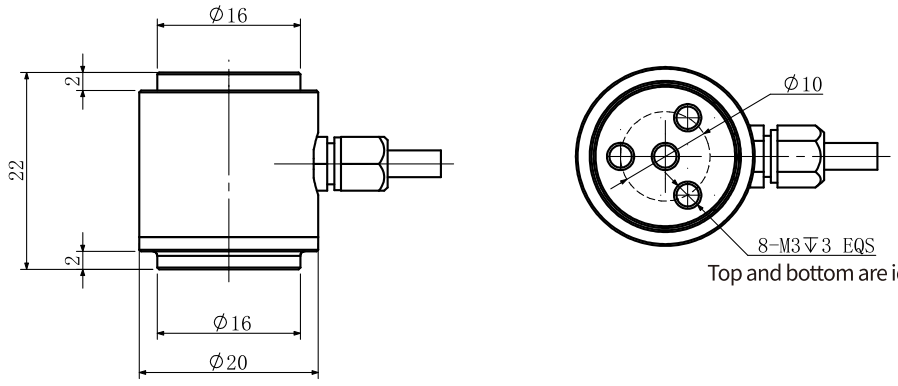
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	N	10,20,50,100,200,500,1000,2000N
满量程位移量 Deflection at Full Scale	mm	0.11
固有频率 Natural Frequency	Hz	3678
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	℃	-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	-	Tension & compression
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	%	≤0.05
重复误差 Repeatability	%	≤0.5
负载蠕变 Creep (30 min)	%	≤0.1
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±20%
激励电压 Excitation Voltage	V(DC)	5~12
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions

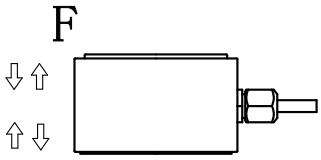


Tension and compression load cell

FA406



受力方向 Load Direction

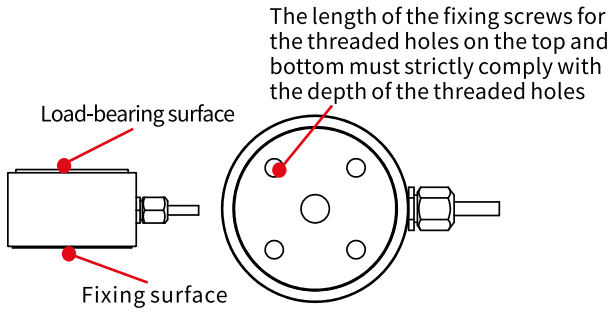


技术参数 Specifications

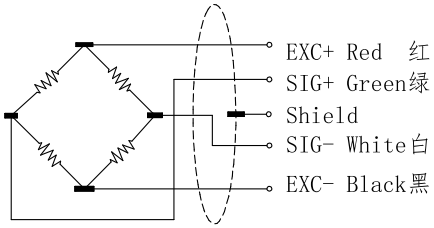
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	0.1,0.2,0.5,1,2,5,10,20kN
满量程位移量 Deflection at Full Scale	mm	0.11
固有频率 Natural Frequency	Hz	7680
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ3x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	2.0±10%
激励电压 Excitation Voltage	V(DC)	5~15
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装方式 Installation

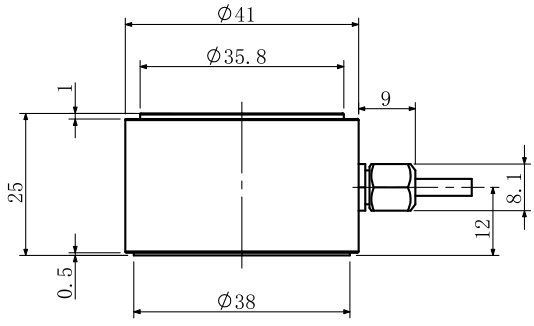
●Suitable for both tension and compression installation

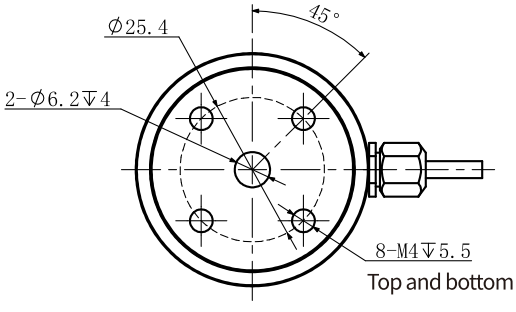


接线图 Wiring



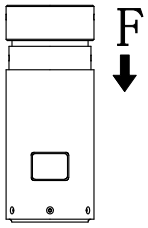
安装尺寸 Dimensions





FA410

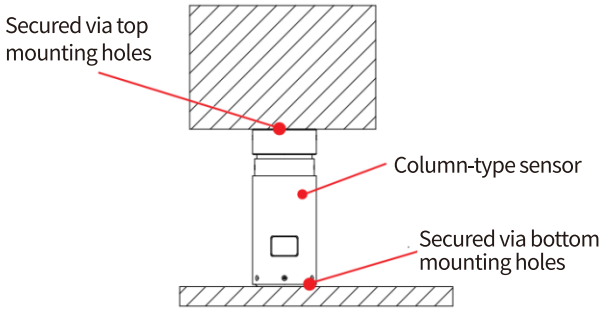
受力方向 Load Direction





安装方式 Installation

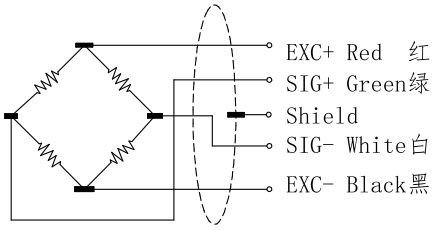
●S型安装 S-type mounting



技术参数 Specifications

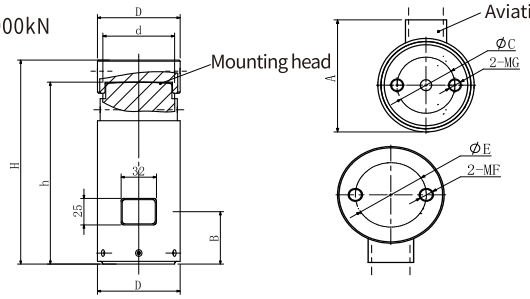
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	50, 100, 200, 500, 1000, 2000, 3000, 5000, 10000, 20000, 50000kN
满量程位移量 Deflection at Full Scale	mm	0.16
固有频率 Natural Frequency	Hz	1406
过载能力 Safe Overload	%	150
工作温度 Operating Temperature	°C	-20~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ2x3m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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	%	≤0.1
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	2.0±10%
激励电压 Excitation Voltage	V(DC)	5
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



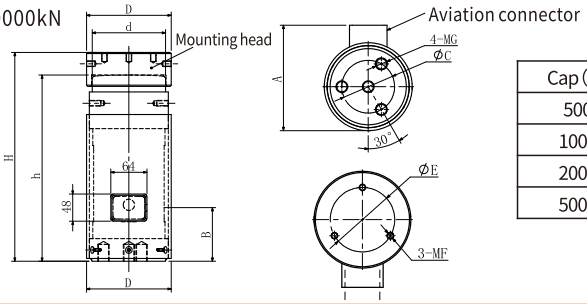
安装尺寸 Dimensions

50~3000kN



Cap (kN)	A	B	C	D	d	E	H	h	F	G
50,100,200,500	69	40	30	54	39	40	135	115	M6↧10	M8↧12
1000	96	60	40	78	60	50	175	150	M6↧10	M12↧20
2000	121	60	60	103	85	75	240	210	M10↧16	M16↧25
3000	145	70	75	125	105	90	290	250	M10↧16	M16↧25

5000~50000kN

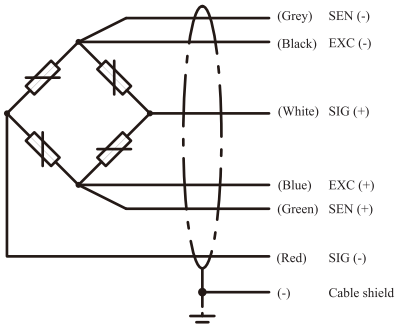


Cap (kN)	A	B	C	D	d	E	H	h	F	G
5000	180	95	90	150	130	100	370	330	M10↧16	M20↧30
10000	245	125	120	215	190	120	450	400	M10↧16	M20↧30
20000	318	150	200	295	260	200	650	570	M12↧20	M24↧40
50000	487	185	300	455	420	300	800	600	M12↧20	M24↧40

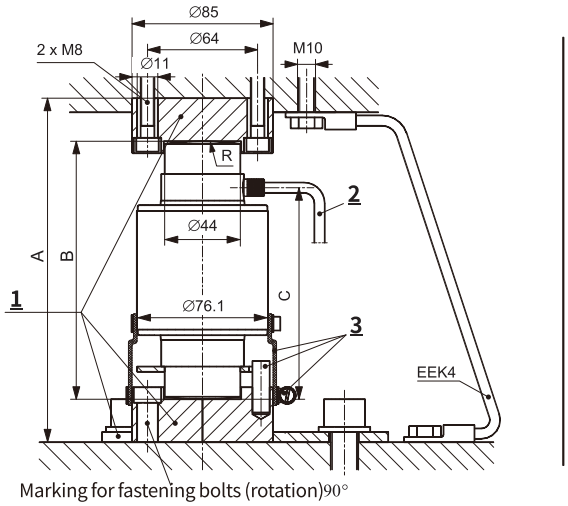
FA409



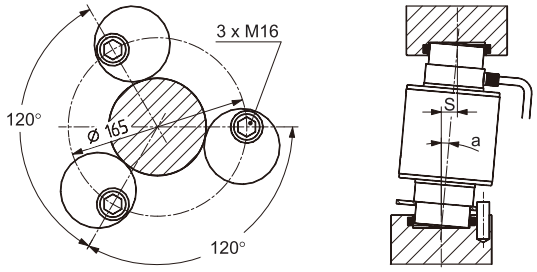
接线图 Wiring



尺寸与安装件 Dimensions and Fittings



Top view



1 FA409/ZOU44A

2 Cable length (standard): 30t=12m;40t=20m

3 Fastening bolts ϕ10x30 (torque limiter), sealing sleeves and hose clamps are included in the scope of supply.

Installation options	E_{max} FA409	Pressure components Top + Bottom (1 set = 2 pieces)	A	B	C	R ball	a_{max} 2)	S_{max} 3)	F_R 4)(Percentage of applied load)	
									For S_{max}	S=1mm
	30t	FA409/ZOU44A 1)	200	150	123	160	5°	13	9.9	0.76
	40t		200	150	123	180	5°	13	12.2	0.94

1) Maximum load: 40 t

2) Maximum permissible tilt position

3) Maximum permissible lateral displacement of the load-introducing component

4) Return force

a_{max} Maximum permissible tilt position	S_{max} Maximum permissible lateral displacement of the load-introducing component	F_R(Return force, as a percentage of the applied load)	
		For S_{max}	S=1mm
4°	18	8.6	0.48

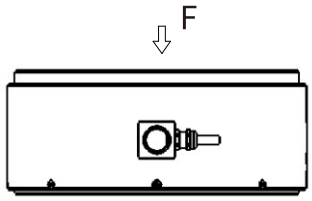
技术参数 Specifications

Model		FA409		
Accuracy class		C3		
Max. no. of intervals	n_{LC}	3000		
Max. capacity	E_{max}	30	40	t
Min. verification interval	V_{min}	0.0100		%V.Emax
Max. ratio	Y	1000		
Rated output	C_n	2		mV/V
Tol. on rated output		±0.5		%
TC of sensitivity	TK_C	±0.0080		%V.Cn/10K
TC of zero	TK_0	±0.0140		
Hysteresis	d_{hy}	±0.0170		%V.Cn
Non-linearity	d_{lin}	±0.0180		
Creep (30 min)	d_{cr}	±0.0167		
DLOR (30 min)	D_R	±0.0167		
Repeatability		±0.005		
Input res. (black–blue)	R_{LC}	700±20		Ω
Output res. (red–white)	R_0	706±3.5		Ω
Excitation	U_{ref}	5		V
Exc. voltage range	B_U	0.5~12		
Ins. resistance	R_{is}	>5		GΩ
Nom. temp. range	B_T	-10~40		°C
Operating temp.	B_{tu}	-50~70		
Storage temp.	B_{tl}	-50~85		
Safe load limit	E_L	150		%V.Emax
Breaking load	E_d	>350		
Perm. vibration load	F_{srel}	70		
Nominal deflection at E_max, approx.	S_{nom}	0.75	0.85	mm
Weight (incl. cable) ≈	G	2.3	2.9	kg
Protection		IP68		
Spring element		Stainless steel		
Housing		30t~40t:1.4404		
Cable gland		Stainless steel		
Cable sheath		TPE (thermoplastic elastomer)		

FA4189



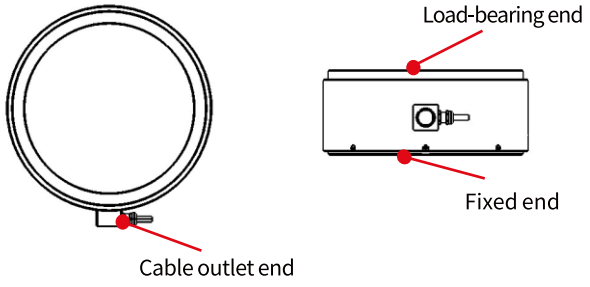
受力方向 Load Direction



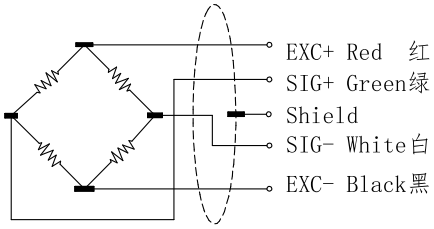
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	2000kN
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	ϕ6x3m
弹性体材料 Spring Element Material		17-4PH/304
测量方向 Loading Direction		Tension & compression
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	%	≤1
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±2.0%
激励电压 Excitation Voltage	V(DC)	5~10
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

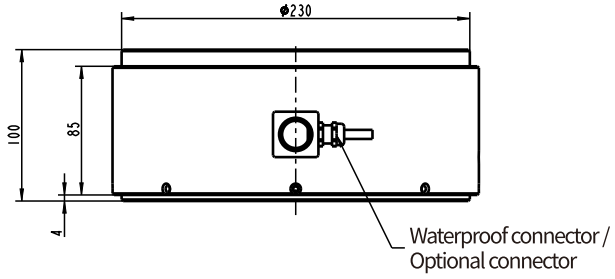
安装方式 Installation

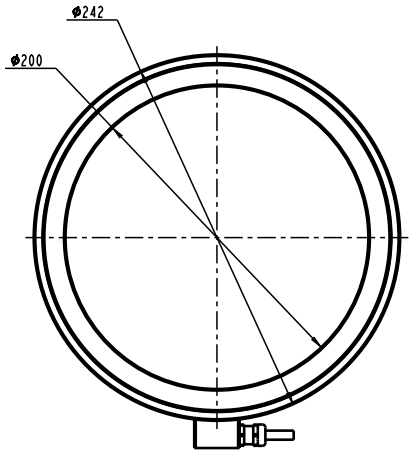


接线图 Wiring



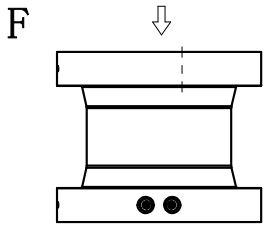
安装尺寸 Dimensions





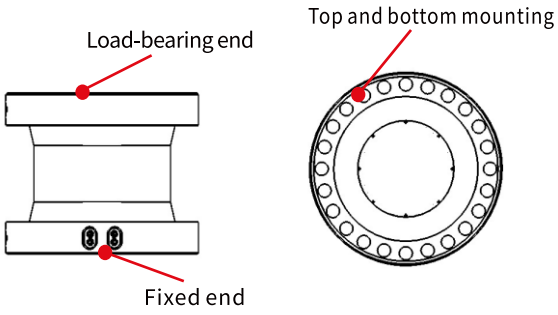
FA4193

受力方向 Load Direction





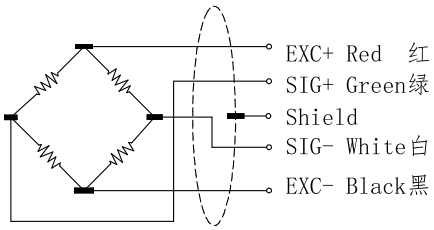
安装方式 Installation



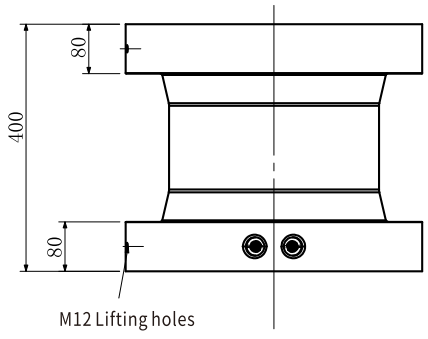
技术参数 Specifications

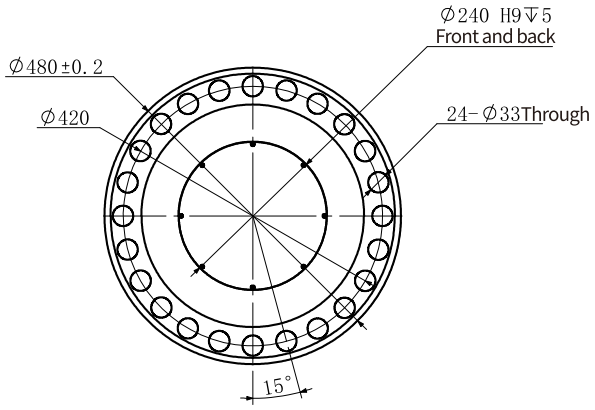
传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	t	1000t
过载能力 Safe Overload	%	120
工作温度 Operating Temperature	℃	-20~80
防护等级 Ingress Protection (IP)	IP	67
电缆长度 Cable	M	Aviation connector
弹性体材料 Spring Element Material		Alloy steel
测量方向 Loading Direction		Tension & compression
传感器精度参数 Sensor Accuracy Parameters		
综合精度 Combined Error	%	0.25~0.5
线性误差 Non-linearity	%	0.25~0.5
相对滞后 Hysteresis	%	0.25~0.5
重复误差 Repeatability	%	0.01-0.05
温度漂移 Temperature Effect on Output	%	0.1%/10℃
传感器电气参数 Electrical Parameters		
满量程输出 Rated Output	mV/V	1.485-1.815
激励电压 Excitation Voltage	V(DC)	5~10
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

接线图 Wiring



安装尺寸 Dimensions



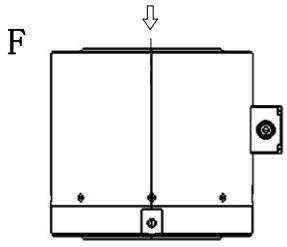


Tension and compression load cell

FA4194



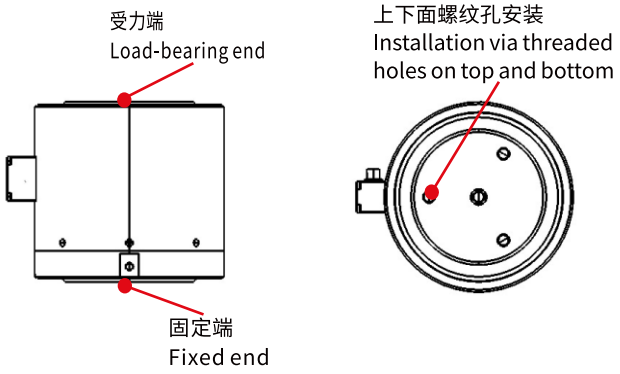
受力方向 Load Direction



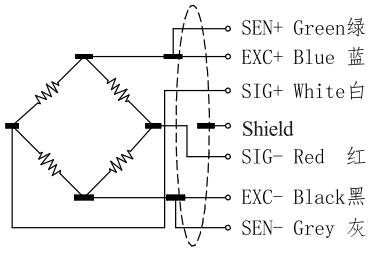
技术参数 Specifications

传感器物理参数 Sensor Physical Parameters		
额定量程 Nominal Capacity	kN	5000kN
满量程位移量 Deflection at Full Scale	mm	0.3
固有频率 Natural Frequency	Hz	>4000
过载能力 Safe Overload	%	200
工作温度 Operating Temperature	°C	-40~80
防护等级 Ingress Protection (IP)	IP	65
电缆长度 Cable	M	ϕ5x6m
弹性体材料 Spring Element Material	-	17-4PH
测量方向 Loading Direction	-	Tension & compression
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)	%	≤±0.06(30min)
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	2-2.48
激励电压 Excitation Voltage	V(DC)	1~15
绝缘电阻 Insulation Resistance	MΩ/VDC	≥5000/100

安装方式 Installation



接线图 Wiring



安装尺寸 Dimensions

