

测力传感器

銷售據點:

總公司

23584新北市中和區立德街7巷10號3樓

TEL:(02)8228-7500 FAX:(02)8228-7501

www.guanjingsensor.com.tw

www.elsie.com.tw

台中辦事處

41454台中市烏日區環河路五段250號2樓之1

TEL:(04)2336-0334 FAX:(02)8228-7501

E-mail:sales@guanjingsensor.com.tw

 GUAN JING
冠景有限公司

 TiJing
台景科技股份有限公司





亚历山大·维甘德
威卡（WIKA）董事长兼首席执行官

关于我们

威卡（WIKA）是一家拥有10,200余名优秀员工的全球性德国家族企业，公司不仅是压力、温度测量领域的先进制造厂商，还是液位、力和流量测量及校准技术方面的业界标杆。

威卡（WIKA）成立于1946年，凭借广泛的高精度测量仪器和全方位服务，公司已发展成为能够满足工业测量需求的可靠合作伙伴。

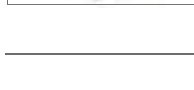
威卡（WIKA）生产基地遍布全球，确保了交付能力的灵活性和及时性。每年，我们都有超过5,000万件优质产品（包括标准产品和定制方案）交付到用户手中，每批次从1件到10,000件不等。

凭借遍布全球各地的众多分公司和合作伙伴，威卡（WIKA）能够为客户提供全球化的可靠支持。我们经验丰富的工程师和销售专家也将竭诚为您提供可信赖的本地化服务。

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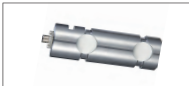
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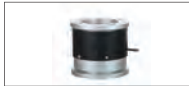
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认证与质量管理 / Certificates and quality management

CE、ISO认证

威卡（WIKA）的传感器和检测仪表安全可靠，经济实惠，适用于各行各业和日常生活。多年以来，我们的产品和系统始终默默奉献于各条战线，以可靠的质量和强大的功能提供长久的服务。

因此，我们在产品的研发、制造、分销和服务方面制定了严格的标准，持续不断地进行优化，反复接受国际认可的检验和审查。凭借坚持不懈的努力，我们能够为客户提供可靠的产品，快速的创新和良好的性价比，企业自身的国际影响力也在不断的提升。

CE、ISO certificate

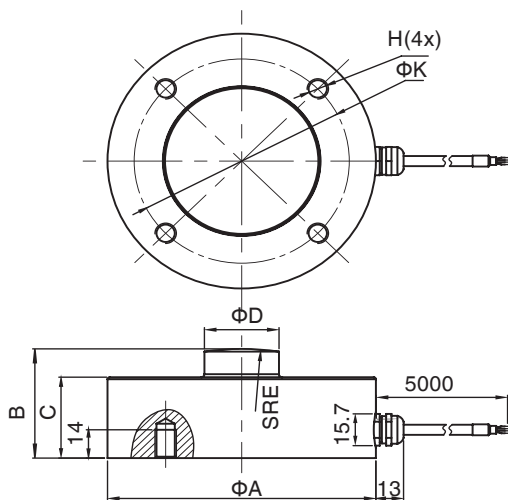
Sensors of WIKA ensure reliability, economic efficiency and life quality in many fields of industry and in normal life. Our products and systems are almost always the invisible stars that are expected to operate reliably and powerfully over many years. Therefore, we set very high standards in the development, manufacture, distribution and service and submit our company processes to new optimizing rounds and internationally approved tests and audits over and over again. Our customers profit from the result of this conscientiousness: Highly reliable products, quicker innovations, economic advantages and our continuously increasing international presence.



F1811



尺寸及量程 / Size and Capacity



SIZE(mm) CAP(kN)	A	B	C	D	E	K	H	材料/Material	重量/Weight
2.5/5/10/20/30/ 50/100	82	44	32	22	50	68	M8	不锈钢/Stainless steel	1.2kg
200	100	48	36	28	100	80	M8		1.6kg
300	126	54	40	35	100	101	M10		3.2kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.5±0.15mV/V
零点输出	Zero balance	±0.03mV/V
非线性	Non-linearity	±0.1%F.S.
滞后	Hysteresis	±0.1%F.S.
重复性	Repeatability	±0.1%F.S.
蠕变 (30分钟)	Creep[30min]	±0.1%F.S.
灵敏度温度漂移	Temp.effect on output	±0.05%F.S./10℃
零点温度漂移	Temp.effect on zero	±0.05%F.S./10℃
输入电阻	Input impedance	750±10Ω
输出电阻	Output impedance	700±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp.range	-10...40℃
工作温度范围	Operation temp.range	-20...80℃
安全超载	Safe overload	150%F.S.
极限超载	Ultimate overload	200%F.S.
电缆线尺寸	Cable size	Φ5×5000mm
防护等级	Protection	IP66
连接方式	Cable color code	Input: Red[+] Black[-]; Output: Green[+] White[-]; 输入: 红[+]黑[-]; 输出: 绿[+]白[-];

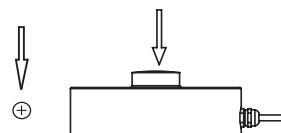


特点和用途 / Features&Applications

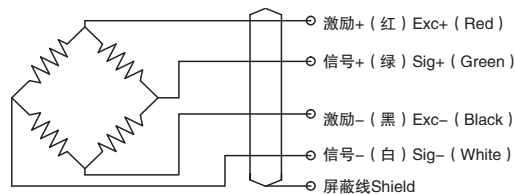
- 低轮廓称重传感器，纽扣设计
- 采用不锈钢材料
- 防护等级为IP66，具有防水、防潮功能
- 结构紧凑，易于安装，应用广泛，用于压装机械，轴承的装配机械、轮轴识别
- Low profile pancake load cell, standard button design
- Made of stainless steel
- IP66, waterproof and moisture-proof
- Compact structure, easy to install
- Various applications such as pressing machine, bearing assembly machine, axle wheel identifying



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

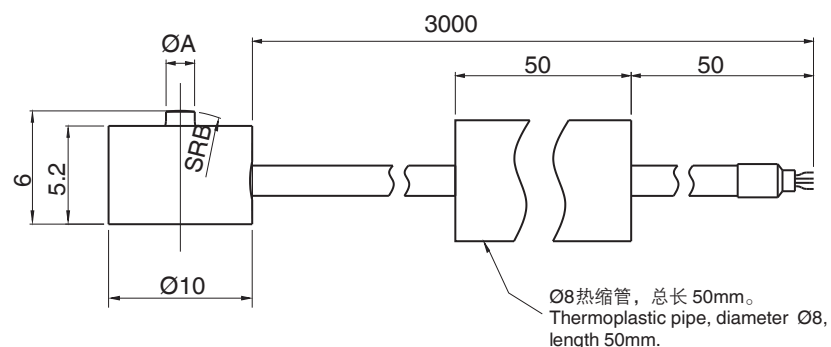


注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



CAP (N)	SIZE (mm)	ØA	B	材料 / Material	重量 / Weight
50/100		1.5	5	不锈钢 / Stainless steel	0.1kg
200/300		2	8		
500/1000		2.5	10		



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.0±0.1mV/V
非线性	Non-linearity	±1% F.S.
滞后	Hysteresis	±0.5% F.S.
重复性	Repeatability	±0.5% F.S.
输入电阻	Input impedance	1030±80Ω
输出电阻	Output impedance	1030±80Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excit ation	5VDC
最大激励电压	Maximum excitation	7VDC
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
电缆线尺寸	Cable size	Ø2× 3000 mm
防护等级	Protection class	IP64
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

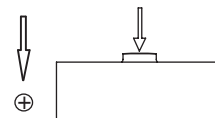


特点和用途 / Features & Applications

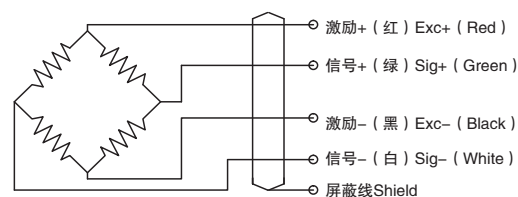
- 微型传感器
- 不锈钢材质, IP64
- 传感器外部装有一可调电阻
- 适用于保压设备、手机装配力、按键手感度测试仪、压机压力检测、机器人手抓力等各种小空间测力
- Miniature load cell, low profile
- Made of stainless steel, IP64
- Adjustable resistance outside the load cell for zero adjustment
- Suitable for force measurement in limited spaces
- Various applications such as consumer electronics assembly, automation industry



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

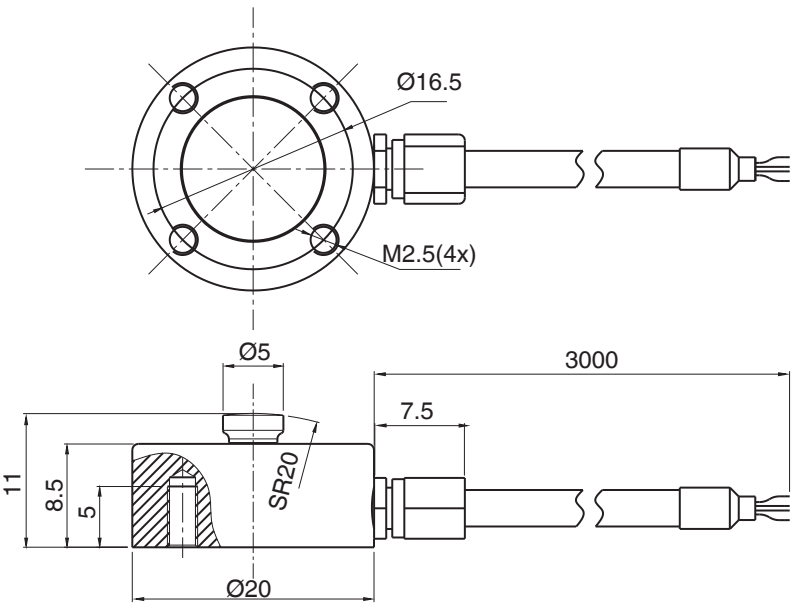


注: 屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

F1818

尺寸及量程 / Size and Capacity



量程 / Capacity (kN)	材料 / Material	重量 / Weight
0.05/0.1/0.2/0.5/1/2/5	不锈钢 / Stainless steel	0.1kg

技术参数 / Technical Parameters

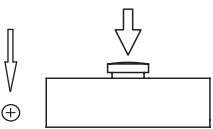
参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.5±0.15mV/V
零点输出	zero balance	±2%F.S.
非线性	Non-linearity	±0.5%F.S.
滞后	Hysteresis	±0.5%F.S.
重复性	Repeatability	±0.1%F.S.
输入电阻	Input impedance	350±10Ω
输出电阻	Output impedance	350±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
工作温度范围	Operation temp.range	-20...80℃
安全超载	Safe overload	150%F.S.
极限超载	Ultimate overload	200%F.S.
电缆线尺寸	Cable size	Φ2×3000mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input:Red[+] Black[-]; Output:Green[+] White[-]; 输入：红[+] 黑[-]; 输出：绿[+] 白[-];



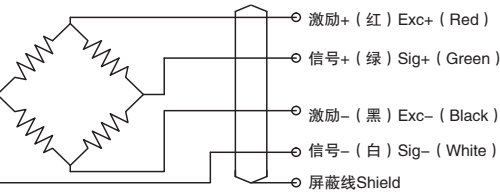
特点和用途 / Features&Applications

- 微型传感器，外形小巧
- 不锈钢，IP65
- 适用于保压设备、手机装配力、按键手感度测试仪、压机压力检测、机器人手抓力等各种小空间测力
- Miniature load cell, low profile
- Made of stainless steel, IP65
- Suitable for force measurement in limited spaces
- Various applications such as consumer electronics assembly, automation industry

受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

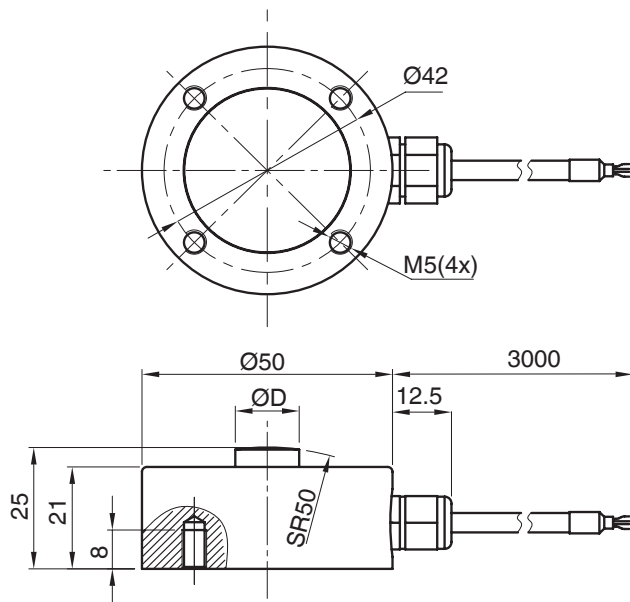


注：屏蔽线不与弹性体相连。
Note:Cable shield is not connected to element.

F1821



尺寸及量程 / Size and Capacity



CAP (kN)	SIZE(mm)	D	材料 /Material	重量 / Weight
0.2/0.3/0.5/1/1.5/2/3/5/10/15/20		13	不锈钢 / Stainless Steel	0.4kg
30/50		16		
60/75/100		21		



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.5±0.15mV/V
零点输出	Zero balance	±3%F.S.
非线性	Non-linearity	±0.5%F.S.
滞后	Hysteresis	±0.5%F.S.
重复性	Repeatability	±0.1%F.S.
灵敏度温度漂移	Temp.effect on output	±0.05%F.S./10℃
零点温度漂移	Temp.effect on zero	±0.05%F.S./10℃
输入电阻	Input impedance	385±10Ω
输出电阻	Output impedance	350±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp.range	-10...40℃
工作温度范围	Operation temp.range	-20...80℃
安全超载	Safe overload	150%F.S.
极限超载	Ultimate overload	200%F.S.
电缆线尺寸	Cable size	Φ4×3000mm
防护等级	Protection class	IP66
连接方式	Cable color code	Input: Red[+] Black[-]; Output: Green[+] White[-]; 输入: 红[+] 黑[-]; 输出: 绿[+] 白[-];

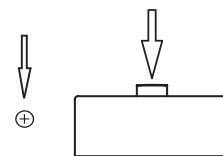


特点和用途 / Features&Applications

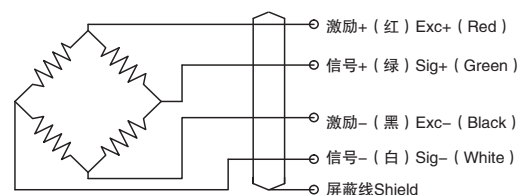
- 不锈钢材料，全密封不锈钢盖板，IP66，适用于各种恶劣的环境
- 用于压装机械，轴承的装配机械、轮轴识别
- 动态冲压设备的瞬间力值检测和控制，料斗秤和料罐秤的动态重量控制
- Stainless steel construction. Fully welded seal with stainless steel cover for hostile environment applications, IP66
- Used in pressing machine, bearing assembly machine
- Transient force measurement of dynamic stamping equipment, hopper scale and tank scale dynamic weight control



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

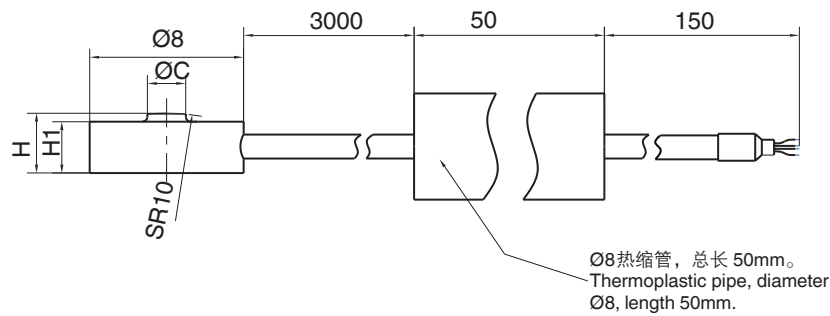


注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

F1860

尺寸及量程 / Size and Capacity



CAP (N)	SIZE (mm)	C	H	H1	材料 /Material	重量/Weight
30/50/100		2	3.5	3	不锈钢 / Stainless steel	0.01kg
200/300		2.5	5.5	5		

技术参数 / Technical Parameters

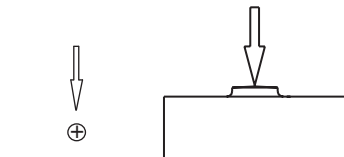
参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	0.5...1.0 mV/V (30...50N) 1.0...1.5 mV/V (100...300N)
非线性	Non-linearity	±1...3% F.S.
滞后	Hysteresis	±1...3% F.S.
重复性	Repeatability	±1...3% F.S.
灵敏度温度漂移	Temp. effect on output	±0.5% F.S. / 10 °C
零点温度漂移	Temp. effect on zero	±0.5% F.S. / 10 °C
输入电阻	Input impedance	350±10Ω
输出电阻	Output impedance	350±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5VDC
最大激励电压	Maximum excitation	7VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
电缆线尺寸	Cable size	Ø1.4×3200 mm
防护等级	Protection class	IP64
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



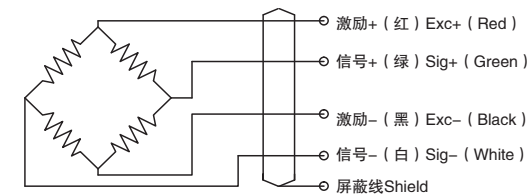
特点和用途 / Features & Applications

- 微型传感器，外形小巧
- 不锈钢材料
- 可定制，IP64
- 传感器外部装有一可调电阻
- 适用于各种小空间的测力，广泛应用于工业、研发等领域的测量和控制
- Miniature load cell, low profile
- Made of stainless steel
- Customizable, IP64 protection
- Adjustable resistance outside the load cell for zero adjustment
- Suitable for force measurement in limited spaces
- Widely used for industrial measurement and control, R&D and other applications

受力方式 / Load Direction



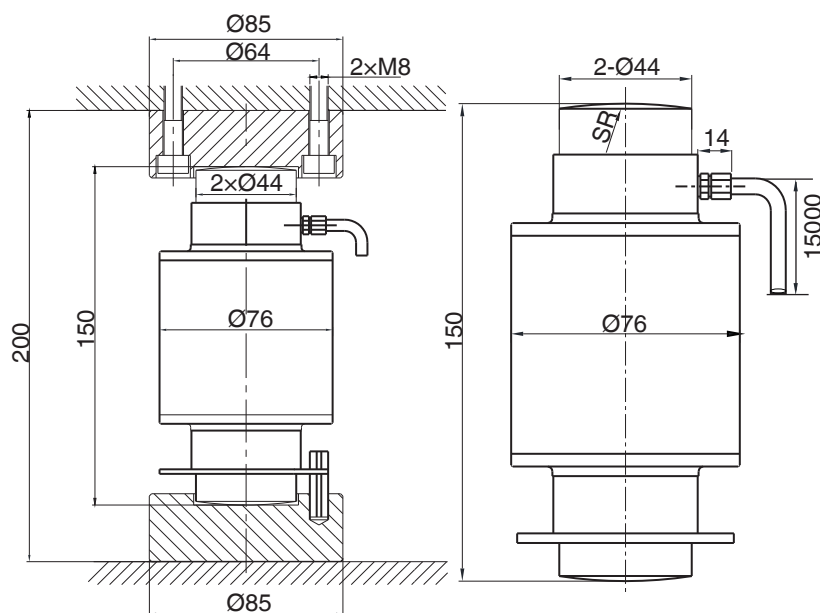
接线图 / Schematic Wiring Diagram



注：屏蔽线不与弹性体相连。
Note: Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



量程 / Capacity (t)	材料 / Material	重量 / Weight
10/20/30/40/50	合金钢 / Alloy steel	4.3kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	2.0±0.004mV/V
零点输出	Zero balance	± 2% F.S.
非线性	Non-linearity	±0.03% F.S.
滞后	Hysteresis	±0.03% F.S.
重复性	Repeatability	±0.03% F.S.
蠕变 (30分钟)	Creep (30min)	±0.03% F.S.
灵敏度温度漂移	Temp. effect on output	±0.02% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.02% F.S. / 10°C
输入电阻	Input impedance	400±20Ω
输出电阻	Output impedance	352±3Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10...40°C
工作温度范围	Operation temp. range	-20...80°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	250% F.S.
电缆线尺寸	Cable size	Ø5×15000 mm
防护等级	Protection class	IP67
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

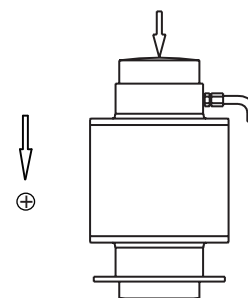


特点和用途 / Features & Applications

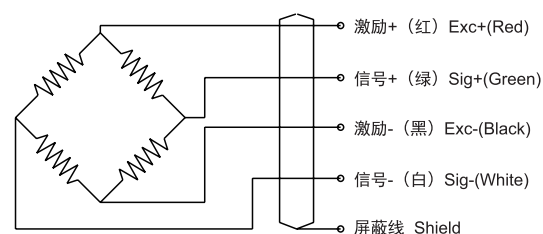
- 压式传感器，柱式设计
- 合金钢材料，激光焊封，IP67
- 安装简单
- 双球面承压测力
- 用于汽车衡、地磅、料仓等工业称重系统
- Compression load cell, column design
- Alloy steel, laser-welded, IP67
- Easy to install
- Dual spherical surface
- Mainly used for truck scale, ground scale, tank and other industrial on board weighing systems



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram



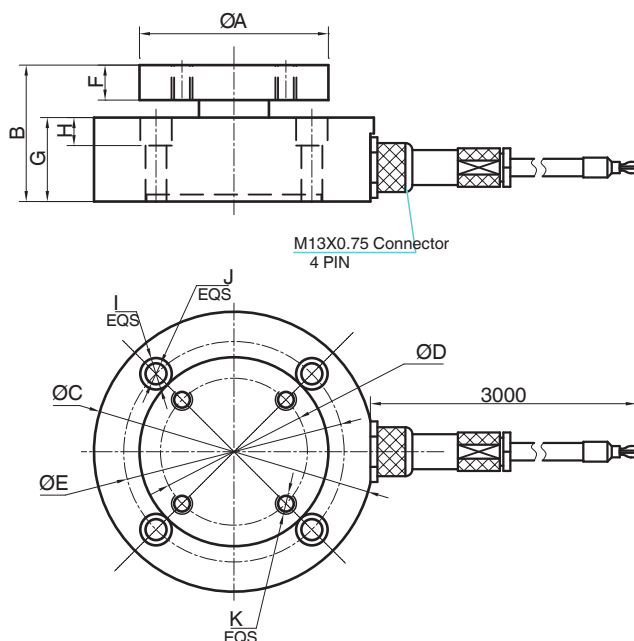
注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

F1870



尺寸及量程 / Size and Capacity



Capacity(kN)	材料/Material	A	B	C	D	E	F	G	H	I	J	K	重量/Weight
10 15 25	Stainless steel 不锈钢	54	39	80	42	63	10	24	8	$\varnothing 9$ (4x)	$\varnothing 6$ (4x)	M6 (4x)	1.0kg
40 50		80	58	118	64	95	12	40	12	$\varnothing 13$ (4x)	$\varnothing 9$ (4x)	M8 (4x)	3.2kg
60 80 100		80	58	118	64	95	12	40	12	$\varnothing 13$ (6x)	$\varnothing 9$ (6x)	M8 (6x)	3.2kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated Output	2.0±0.2 mV/V
零点输出	Zero Balance	≤±2% F.S.
综合误差	Total error	≤±0.2% F.S.
灵敏度温度漂移	Temp. Effect On Output	±0.5% F.S. / 10°C
温度零点漂移	Temp Effect On Zero	±0.05% F.S. / 10°C
激励电压	Recommended Excitation	5...10V DC
补偿温度范围	Compensated Temp Range	-10 ... 40°C
工作温度范围	Operating Temp. Range	-20 ... 80°C
安全超载	Safe Overload	150 % F.S.
极限超载	Ultimate Overload	200 % F.S.
电缆线尺寸	Cable size	Ø 5x3000mm
防护等级	Protection Class	IP66
连接方式	Cable Color Code	Input: Red(+) Black(-) Output: Green(+) White(-) ; 输入: 红 (+) 黑 (-) 输出: 绿 (+) 白 (-)



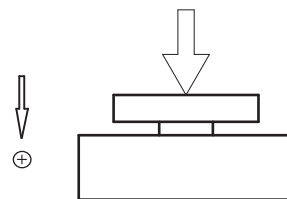
特点和用途 / Features&Applications

- 压式受力
- 上下法兰面安装
- 高度低
- 插拔接头设计
- IP66，不锈钢材料适用于多种恶劣环境
- 适用于各种压装机械，保压设备等压式受力场合

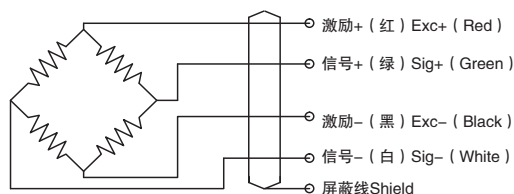
- Compression load cell
- Installation of upper and lower flanges
- Low profile
- Design of plug joint
- IP66, Stainless steel materials are suitable for various harsh environments
- Suitable for all kinds of pressure-mounting machinery, pressure-holding equipment, equal pressure force situation



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram



注：屏蔽线不与弹性体相连。

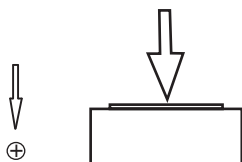
Note: Cable shield is not connected to element.



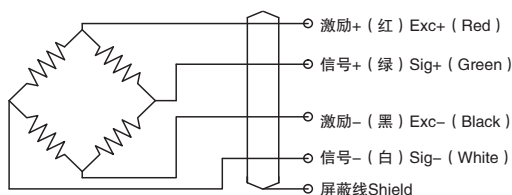
特点和用途 / Features&Applications

- 垫圈式环形不锈钢材料传感器
- 形变量小
- 可定制, IP65
- 适用于螺钉及杆件的张力测试、挤压力测试、组装力测试及其他压力测试
- Washer type load cell made of stainless steel
- Small deformation
- Customizable, IP65
- Suitable for tension measurement of screw bolts and rod pieces, extrusion force test, assemble pressure test and other pressure test

受力方式 / Load Direction



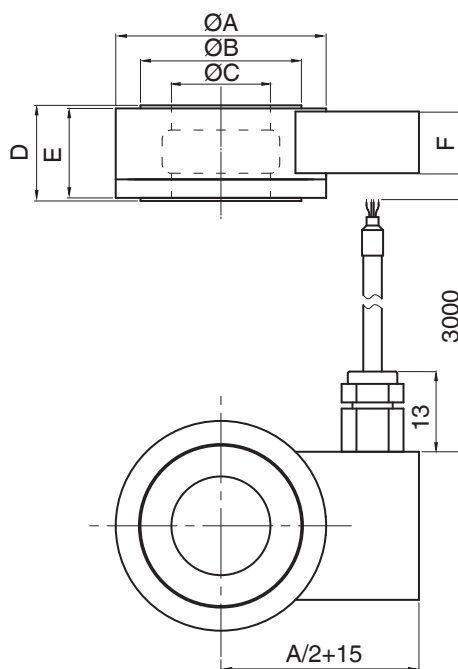
接线图 / Schematic Wiring Diagram



注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

尺寸及量程 / Size and Capacity



SIZE(mm)	A	B	C	D	E	F	材料 / Material	重量 / Weight
CAP (kN)	34	24	16	15	14	10	不锈钢 / Stainless steel	0.1kg
3/5/10/20	69	54	32	50	49	30		1.1kg
50/100/150/200	95	78	50	50	49	30		1.9kg

技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.0±0.1 mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±2% F.S.
滞后	Hysteresis	±2% F.S.
重复性	Repeatability	±0.5% F.S.
蠕变 (30分钟)	Creep (30min)	±0.5% F.S.
灵敏度温度漂移	Temp. effect on output	±0.05% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.05% F.S. / 10°C
输入电阻	Input impedance	385±30Ω
输出电阻	Output impedance	350±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15V
温度补偿范围	Compensated temp. range	-10 ... 40 °C
工作温度范围	Operation temp. range	-20 ... 80 °C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø3×3000 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

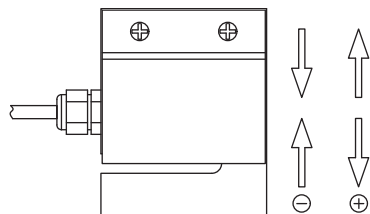
F2801



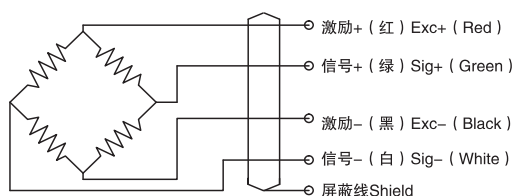
特点和用途 / Features&Applications

- 拉压双向, IP65
- 铝合金, 合金钢, 不锈钢材料
- 用于小力值试验机、料斗秤、配料秤、吊钩秤、插拔力测试
- Tension and compression application, IP65 protection
- Made of anodized aluminum alloy, alloy steel or stainless steel
- Mainly used for small range of testing instruments, tension and compression testing instruments, hopper scales, batching scales, crane scales

受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

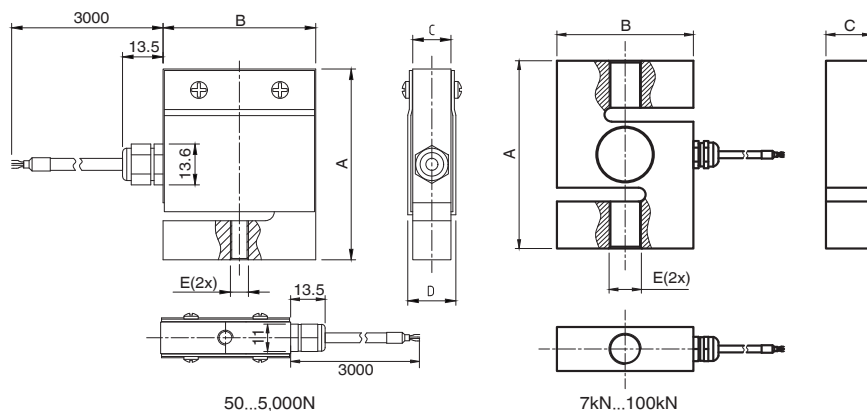


注: 屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



注: 30kg 可做 M8

Note: M8 is optional available for 30kg

SIZE(mm) CAP(N)	A	B	C	D	E	电缆线/Cable	材料/ Material	重量/Weight
50/60/100/150/200N	63.5	50.8	12.7	≤17.0	M6*1	Φ4	铝合金/ Aluminium Alloy	0.3kg
300/500/1000/2000N	76.2	50.8	19.0	≤23.0	M12*1.75	Φ5		0.4kg
50/100/200/500/750N	63.5	50.8	12.7	≤19.1	M8*1.25	Φ4	合金钢/不锈 钢（可选） Stainless Steel/Alloy Steel（Optio n）	0.4kg
1000/3000/5000N	76.2	50.8	19.1	≤25.4	M12*1.75	Φ5		0.4kg
7000N	76.2	50.8	19.1	----	M12*1.75			0.4kg
10/15KN	76.2	50.8	25.4	----	M12*1.75			0.4kg
20/30N/50KN	108	76.2	25.4	----	M18*1.5			1.7kg
75KN	139.7	100	31.8	----	M24*2			3.5kg
100KN	178	127	51	----	M30*2			9.0kg

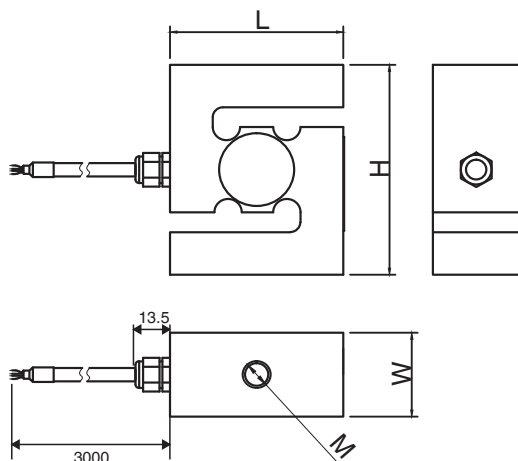


技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	2.0±0.1mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.03%F.S.
滞后	Hysteresis	±0.03%F.S.
重复性	Repeatability	±0.03%F.S.
蠕变 (30分钟)	Creep (30min)	±0.03%F.S.
灵敏度温度漂移	Temp. effect on output	±0.03%F.S. / 10℃
零点温度漂移	Temp. effect on zero	±0.03%F.S. / 10℃
输入电阻	Input impedance	410±30Ω
输出电阻	Output impedance	350±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10...40℃
工作温度范围	Operation temp. range	铝合金Alu.: -20...65℃ 不锈钢S.S.、合金钢A.S.: -20...80℃
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
电缆线尺寸	Cable size	3000 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



尺寸及量程 / Size and Capacity



SIZE(mm) CAP (kN)	H	L	W	M	材料 / Material	重量 / Weight
0.5	63.5	50.8	25.4	M8	合金钢 / Alloy steel	0.3kg
1/2	76.2	50.8	25.4	M12		0.5kg
5/10	87.3	57.2	31	M12	不锈钢Stainless steel	0.5kg
20/30	100	69.8	36.5	M24*2		1.3kg
50	114.3	76.2	36.5	M24*2		1.4kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	2.0±0.1mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.03%F.S.
滞后	Hysteresis	±0.03%F.S.
重复性	Repeatability	±0.03%F.S.
蠕变 (30分钟)	Creep (30min)	±0.03%F.S.
灵敏度温度漂移	Temp. effect on output	±0.025% F.S. / 10℃
零点温度漂移	Temp. effect on zero	±0.025% F.S. / 10℃
输入电阻	Input impedance	385±30Ω
输出电阻	Output impedance	350±5Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10...40℃
工作温度范围	Operation temp. range	-20...80℃
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø5×3000 mm
防护等级	Protection class	IP65(<500kg), IP67 (≥500kg)
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



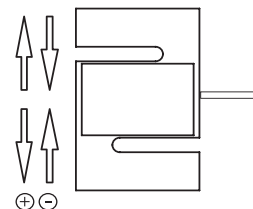
特点和用途 / Features&Applications

- 拉压双向
- 合金钢或不锈钢材料
- 用于试验机、推拉力计、料斗秤、吊钩秤等工业测量系统

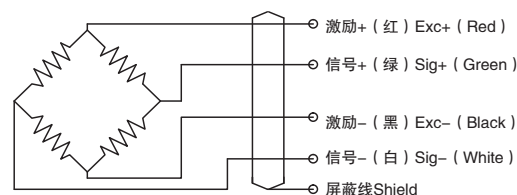
- Tension and compression application
- Made of alloy steel or alloy steel
- Mainly used for testing instruments, pull and push dynamometer, hopper scales, crane scales and industrial weighing system



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

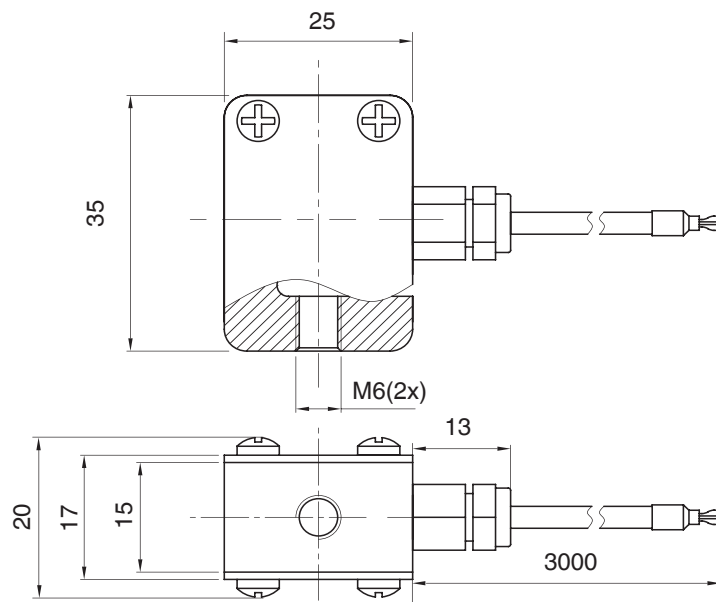


注：屏蔽线不与弹性体相连。
Note: Cable shield is not connected to element.

F2807



尺寸及量程 / Size and Capacity



量程 /Capacity (N)	材料 /Material	重量 /Weight
10/20/30/50/100/150/200/500	铝合金 / Aluminum alloy	0.1kg
50/100/150/200/500	合金钢 / Alloy steel	0.1kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	$2.0 \pm 0.2 \text{ mV/V}$
零点输出	Zero balance	$\pm 2\% \text{ F.S.}$
非线性	Non-linearity	$\pm 0.05\% \text{ F.S.}$
滞后	Hysteresis	$\pm 0.05\% \text{ F.S.}$
重复性	Repeatability	$\pm 0.05\% \text{ F.S.}$
蠕变 (30分钟)	Creep (30min)	$\pm 0.05\% \text{ F.S.}$
灵敏度温度漂移	Temp. effect on output	$\pm 0.025\% \text{ F.S.} / 10^\circ\text{C}$
零点温度漂移	Temp. effect on zero	$\pm 0.025\% \text{ F.S.} / 10^\circ\text{C}$
输入电阻	Input impedance	$410 \pm 10 \Omega$ (Alumium alloy) $385 \pm 10 \Omega$ (Alloy steel)
输出电阻	Output impedance	$350 \pm 5 \Omega$
绝缘电阻	Insulation	$\geq 5000 \text{ M}\Omega$
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15V
温度补偿范围	Compensated temp. range	$-10 \dots 40^\circ\text{C}$
工作温度范围	Operation temp. range	铝合金Alu.: $-20 \dots 65^\circ\text{C}$ 合金钢A.S.: $-20 \dots 80^\circ\text{C}$
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	$\varnothing 3 \times 3000 \text{ mm}$
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

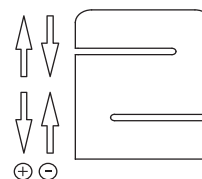


特点和用途 / Features&Applications

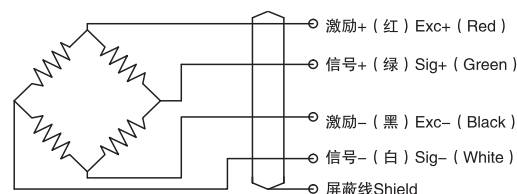
- 拉压双向
- 铝合金或合金钢材料
- IP65, 使用环境需要干燥和耐腐蚀
- 用于手持推拉力计、电脑手机等按键、开关的弹力测试、吊钩秤、其他测力或者力值计量使用
- Tension and compression application
- Made of anodized aluminum alloy or alloy steel
- IP65, suitable for dry and non-corrosion environment
- Mainly used for pull and push dynamometer, hopper scale and industrial measuring systems



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

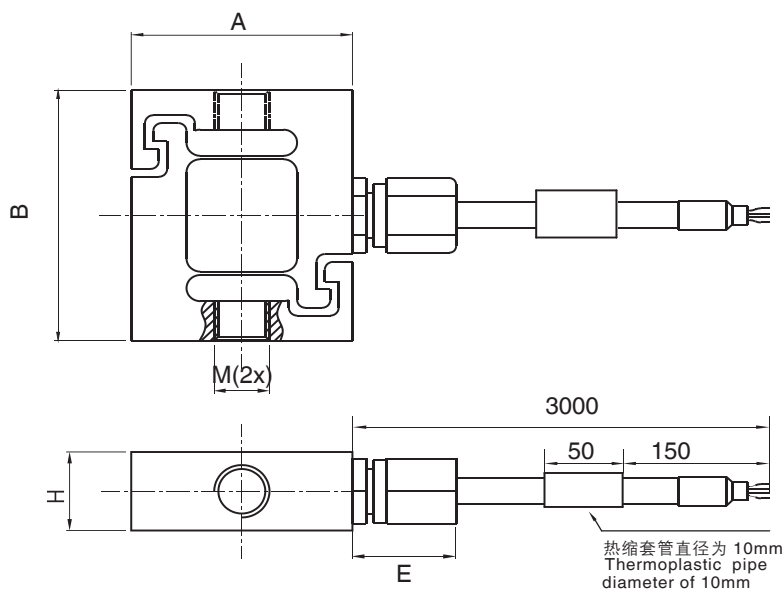


注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



SIZE(mm)	M	H	A	B	E	电缆线/Cable	材料/Material	重量/Weight
CAP (N)								
5/10/20	M3	6	16	19.1	7.5	Ø2	不锈钢 / Stainless steel	0.1kg
50/100/200/300/500	M4	6	16	19.1	7.5			
250/300/500/1k/2k	M8	14	26	40	13	Ø3		

注：M3、M4 的传感器，导线为 Ø2，配 M4 压线螺母

M8 的传感器，导线为 Ø3，配 M6 压线螺母

Note: The cable will be Ø2 for M3、M4 load cell, equipped with M4 compression nut

The cable will be Ø3 for M8 load cell, equipped with M6 compression nut



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	$1.5 \pm 0.15 \text{ mV/V(5N)}$
		$2.0 \pm 0.2 \text{ mV/V}(\geq 10\text{N})$
零点输出	Zero balance	$\pm 2\% \text{ F.S.}$
非线性	Non-linearity	$\pm 0.15\% \text{ F.S.}$
滞后	Hysteresis	$\pm 0.1\% \text{ F.S.}$
重复性	Repeatability	$\pm 0.1\% \text{ F.S.}$
蠕变 (30分钟)	Creep (30min)	$\pm 0.1\% \text{ F.S.}$
输入电阻	Input impedance	$380 \pm 30 \Omega$
输出电阻	Output impedance	$380 \pm 30 \Omega$
绝缘电阻	Insulation	$\geq 5000 \text{ M}\Omega$
激励电压	Recommended excitation	5VDC
最大激励电压	Maximum excitation	7VDC
温度补偿范围	Compensated temp. range	$-10 \dots 40^\circ\text{C}$
工作温度范围	Operation temp. range	$-20 \dots 80^\circ\text{C}$
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	300% F.S.
电缆线尺寸	Cable size	3000 mm
防护等级	Protection class	IP66
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



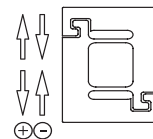
特点和用途 / Features & Applications

- 微型传感器，高度低
- 拉压双向，装有可调电阻
- 不锈钢或者合金钢材料
- 带过载保护，IP66
- 主要用于推拉力计、插拔力测试仪、铆钉机、焊接机、贴膜机等

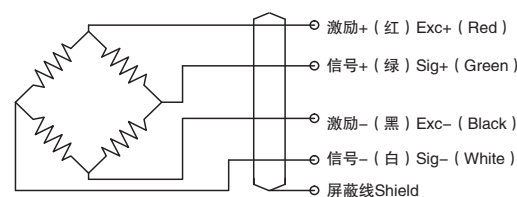
- Miniature load cell, low profile, ultra compact build size
- Tension and compression application
- Made of stainless steel or alloy steel
- Integrated over load protection, IP66
- Mainly used for pull and push dynamometer, tension and compression testing instruments, riveting machine, welding machine, lamination machine



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram



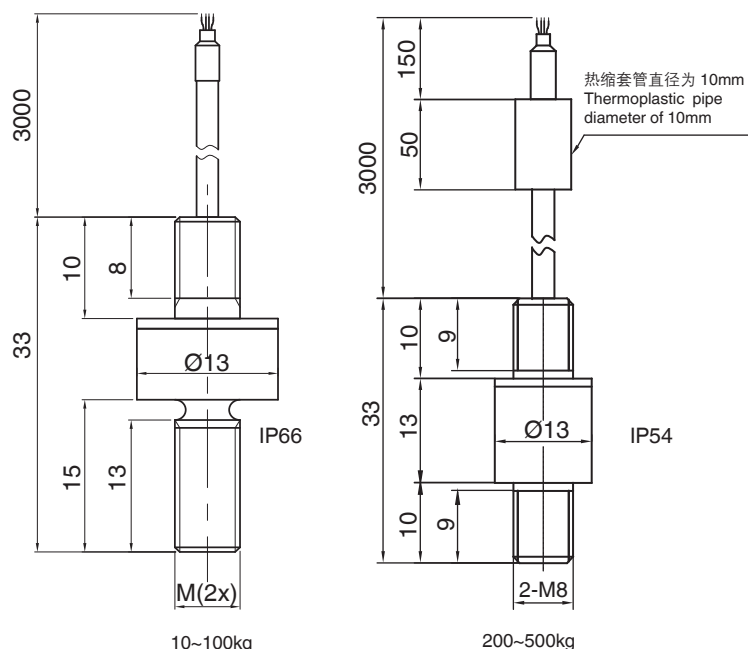
注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

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尺寸及量程 / Size and Capacity



SIZE(mm)		M	电缆线 / Cable	材料 / Material	重量 / Weight
CAP (N)	100/150/200/300/500/1000	M6	Ø2	不锈钢 / Stainless steel	0.1kg
	2000/3000/4000/5000	M8	Ø3		



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.0±0.2mV/V
零点输出	Zero balance	±5% F.S.
非线性	Non-linearity	±1% F.S.
滞后	Hysteresis	±0.5% F.S.
重复性	Repeatability	±0.5% F.S.
输入电阻	Input impedance	350 ± 30Ω
输出电阻	Output impedance	350 ± 5Ω
绝缘电阻	Insulation	≥2000MΩ
激励电压	Recommended excitation	5VDC
最大激励电压	Maximum excitation	10VDC
温度补偿范围	Compensated temp. range	-10...40°C
工作温度范围	Operation temp. range	-20...80°C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	3000 mm
防护等级	Protection class	10...100kg IP66 200...500kg IP54
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



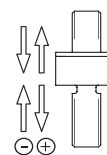
特点和用途 / Features & Applications

- 微型传感器，高度低
- 不锈钢材料
- 传感器外部装有一可调电阻 (200~500kg)
- 用于消费电子测试设备以及其它精度要求不高测力设备

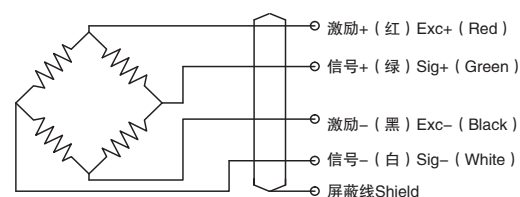
- Miniature load cell, low profile, ultra compact size
- Made of stainless steel
- Adjustable resistance outside the load cell for zero adjustment (200~500kg)
- Mainly used for consumer electronics test equipment, low value force measurement and other measuring devices which have undemanding precision requirements



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

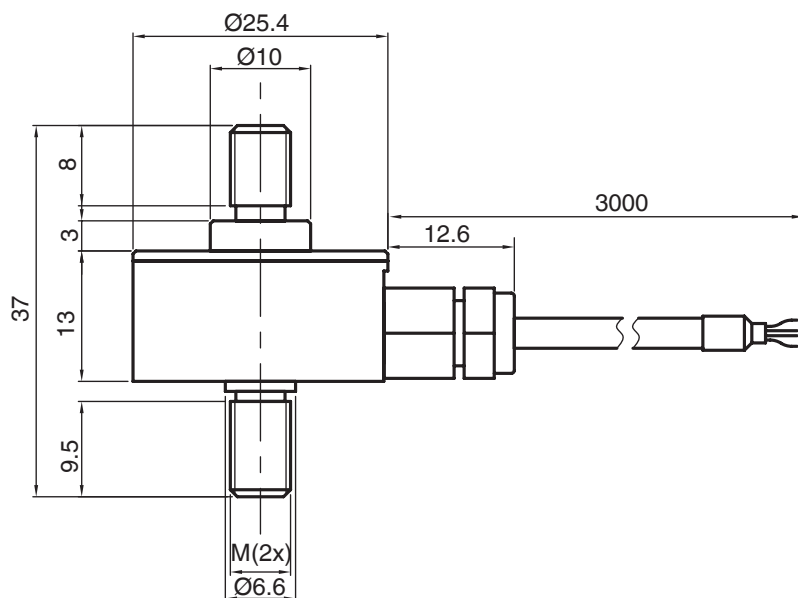


注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



CAP (N)	SIZE(mm)	M	材料 / Material	重量 / Weight
50/100/150/200/300/500		M5	不锈钢 / Stainless steel	0.1kg
600/1000		M6		



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	2.0±0.2mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.5% F.S.
滞后	Hysteresis	±0.5% F.S.
重复性	Repeatability	±0.25% F.S.
灵敏度温度漂移	Temp. effect on output	±0.2% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.2% F.S. / 10°C
输入电阻	Input impedance	700±30 Ω
输出电阻	Output impedance	700±5 Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40 °C
工作温度范围	Operation temp. range	-20 ... 80 °C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø3×3000 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



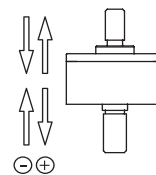
特点和用途 / Features&Applications

- 拉压双向
- 形变量小, IP65
- 不锈钢材料
- 主要用于试验机、小型焦煤、料位计称, 微型拉压力测力设备, 如机械手, 贴膜机、铆钉机、焊接机、插拔力测试仪

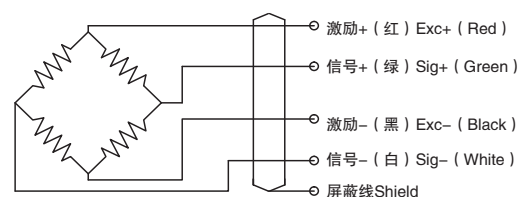
- Tension and compression application
- Low profile, IP65 protection
- Made of stainless steel
- Mainly used for testing machine, miniature tension and pressure test equipment, such as lamination machine, riveting machine, welding machine



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

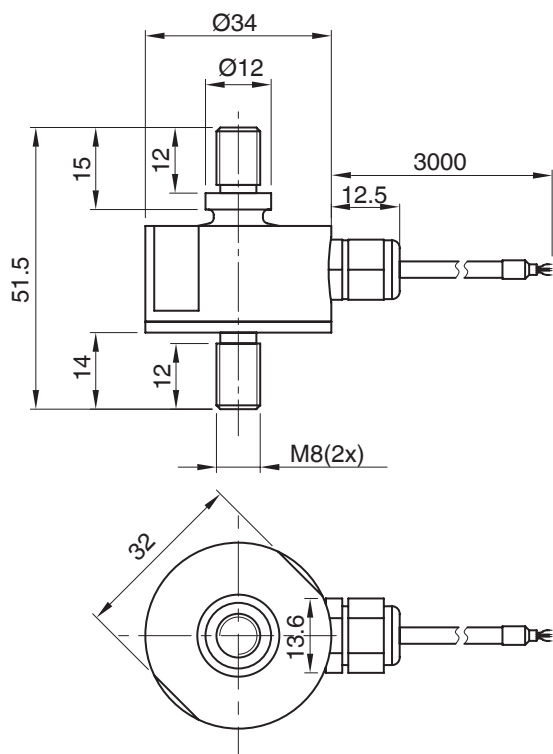


注: 屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

F2813

尺寸及量程 / Size and Capacity



量程 / Capacity (kN)	材料 / Material	重量 / Weight
1/1.5/2/3/5	不锈钢 /Stainless steel	0.25kg

技术参数 / Technical Parameters

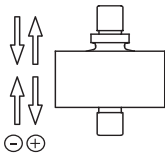
参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.5 ±0.15mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.5% F.S.
滞后	Hysteresis	±0.5% F.S.
重复性	Repeatability	±0.5% F.S.
灵敏度温度漂移	Temp. effect on output	±0.05% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.05% F.S. / 10°C
输入电阻	Input impedance	385 ± 10 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥2000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
电缆线尺寸	Cable size	Ø4×3000 mm
防护等级	Protection class	IP66
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



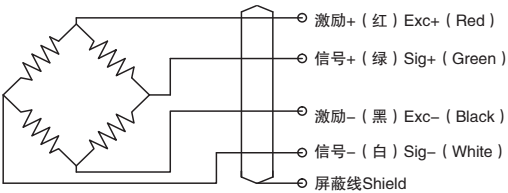
特点和用途 / Features&Applications

- 拉压双向
- 不锈钢材料
- IP66, 防水、耐腐蚀
- 主要用于试验机、小型焦煤、料位计称，微型拉压力测力设备，如机械手，贴膜机、铆钉机、焊接机、插拔力测试仪
- Tension and compression application
- Made of stainless steel
- IP66, waterproof, corrosion resistance
- Mainly used for testing machine, miniature tension and pressure test equipment, such as lamination machine, riveting machine, welding machine

受力方式 / Load Direction



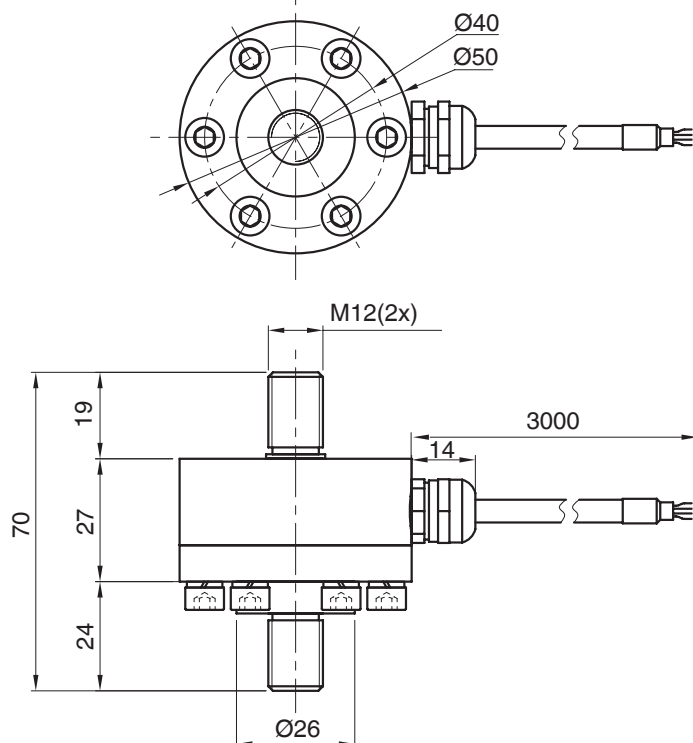
接线图 / Schematic Wiring Diagram



注：屏蔽线不与弹性体相连。
Note: Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



量程 / Capacity (kN)	材料 / Material	重量 / Weight
1/2/5/10/20	不锈钢 /Stainless steel	0.6kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.5 ±0.15mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.5% F.S.
滞后	Hysteresis	±0.5% F.S.
重复性	Repeatability	±0.1% F.S.
灵敏度温度漂移	Temp. effect on output	±0.05% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.05% F.S. / 10°C
输入电阻	Input impedance	385 ± 10Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø4×3000 mm
防护等级	Protection class	IP66
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



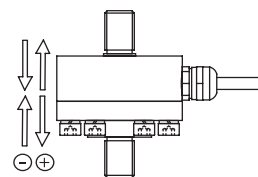
特点和用途 / Features&Applications

- 拉压双向
- 不锈钢材料, IP66
- 主要用于试验机、小型焦煤、料位计称, 微型拉压力测力设备, 如机械手, 贴膜机、铆钉机、焊接机、插拔力测试仪

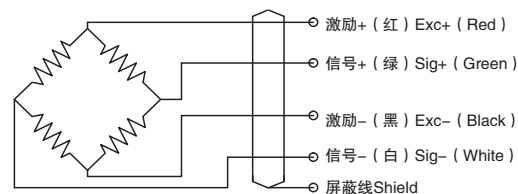
- Tension and compression application
- Made of stainless steel, IP66
- Mainly used for testing machine, miniature tension and pressure test equipment, such as lamination machine, riveting machine, welding machine



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

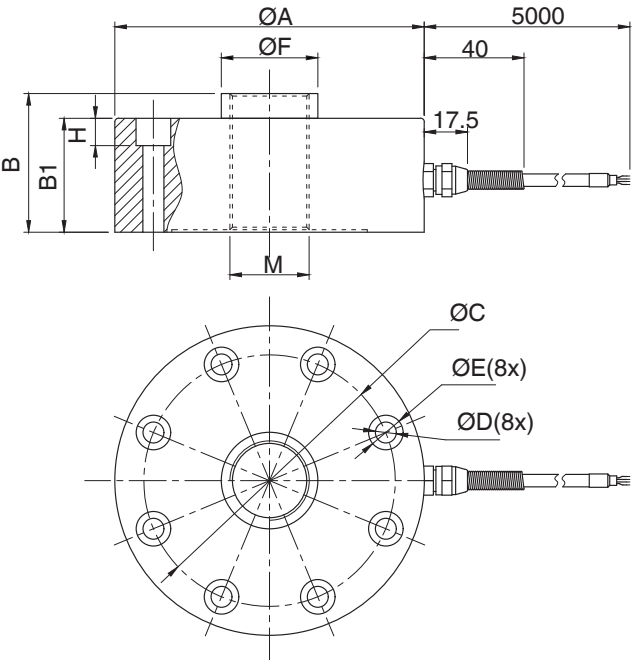


注: 屏蔽线不与弹性体相连。

Note: Cable shield is not connected to element.

F2822

尺寸及量程 / Size and Capacity



SIZE(mm) CAP (kN)	A	B	B1	C	D	E	F	H	M	材料/Material	重量/Weight
10/20/25/50/70	105	37	34	89	6.5	10.5	32	7.2	M16*1.5	合金钢 Alloy steel	1.8kg
100/200/250	125	56	46	101.8	10.5	18	39	11	M30*1.5		4.5kg
300/400/500	145	65	54	116.8	12.5	18	60	14	M40*1.5		7kg

技术参数 / Technical Parameters

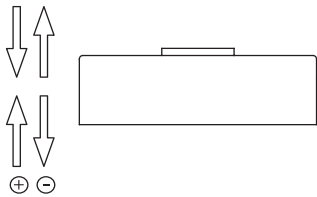
参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	2.0 ±0.02 mV/V
零点输出	Zero balance	± 1% F.S.
非线性	Non-linearity	±0.05% F.S.
滞后	Hysteresis	±0.05% F.S.
重复性	Repeatability	±0.03% F.S.
蠕变 (30分钟)	Creep (30min)	±0.05% F.S.
灵敏度温度漂移	Temp. effect on output	±0.03% F.S. / 10℃
零点温度漂移	Temp. effect on zero	±0.03% F.S. / 10℃
输入电阻	Input impedance	750 ±10 Ω
输出电阻	Output impedance	700 ±5 Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40℃
工作温度范围	Operation temp. range	-20 ... 80℃
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø5×5000 mm
防护等级	Protection class	IP66
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



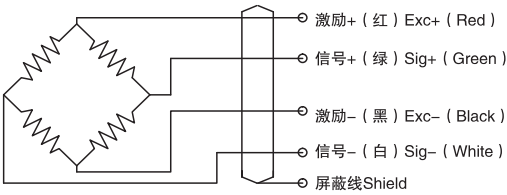
特点和用途 / Features&Applications

- 合金测力计、钢材料，可内置放大器
- 用于测力计、仓储秤、汽车衡、台秤、地中衡、轨道衡、料斗秤以及其他测量设备
- Pancake load cell made of alloy steel, internal amplifier universal test machine, optional
- Mainly used for universal test machine, warehouse scales, platform scales, truck scales, floor scales, railway scales, hopper scales and other measuring devices

受力方式 / Load Direction



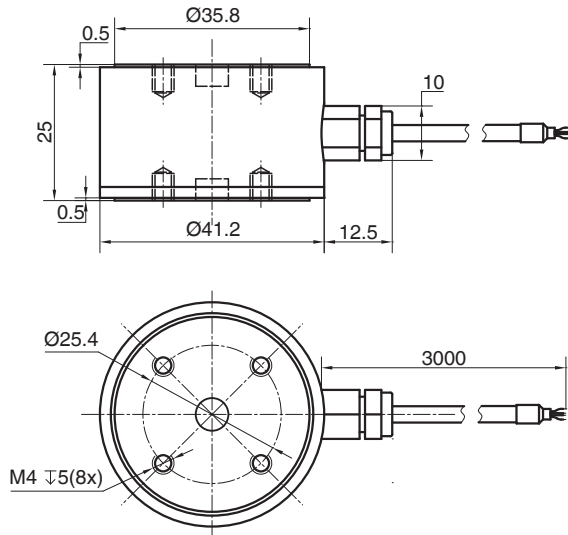
接线图 / Schematic Wiring Diagram



注：屏蔽线不与弹性体相连。
Cable shield is not connected to element.



尺寸及量程 / Size and Capacity



量程/Capacity (N)	材料/Material	重量/Weight
100/200/500/1000/2000/5000	不锈钢/Stainless steel	0.2kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated Output	$2.0 \pm 0.2 \text{ mV/V}$
零点输出	Zero Balance	$\pm 2\% \text{ F.S.}$
非线性	Non-linearity	$\pm 0.1\% \text{ F.S.}$
滞后	Hysteresis	$\pm 0.1\% \text{ F.S.}$
重复性	Repeatability	$\pm 0.1\% \text{ F.S.}$
蠕变	Creep(30min)	$\pm 0.05\% \text{ F.S.}$
灵敏度温度漂移	Temp. Effect On Output	$\pm 0.5\% \text{ F.S.} / 10^\circ\text{C}$
温度零点漂移	Temp Effect On Zero	$\pm 0.5\% \text{ F.S.} / 10^\circ\text{C}$
绝缘电阻	Insulation	$\geq 5000 \text{ M}\Omega$
激励电压	Recommended Excitation	5...10VDC
最大激励电压	Maximun excitation	15VDC
工作温度范围	Operation Temp Range	$-20 \dots 80^\circ\text{C}$
安全超载	Safe Overload	150 % F.S.
防护等级	Protection Class	IP54
电缆线尺寸	Cable Size	$\varnothing 3 \times 3000 \text{ mm}$
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-) 输出: 绿 (+) 白 (-)

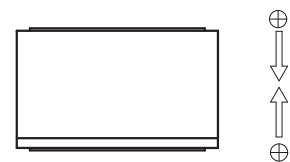


特点和用途 / Features&Applications

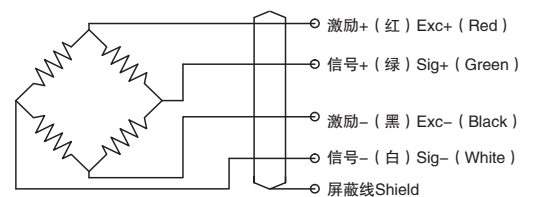
- 拉压双向受力
- 上下法兰面安装
- 高度低，整体结构紧凑小巧
- 不锈钢材料适用于多种恶劣环境
- 适用于各种保压设备，铆钉机，焊接机，贴膜机等拉压受力场合
- Tension and compression application
- Installation of upper and lower flanges
- Low height, compact structure
- Stainless steel materials are suitable for various harsh environments
- Suitable for tension and compression situations of various pressure-holding equipment, riveting machine, welding machine, film-sticking machine, etc.



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram



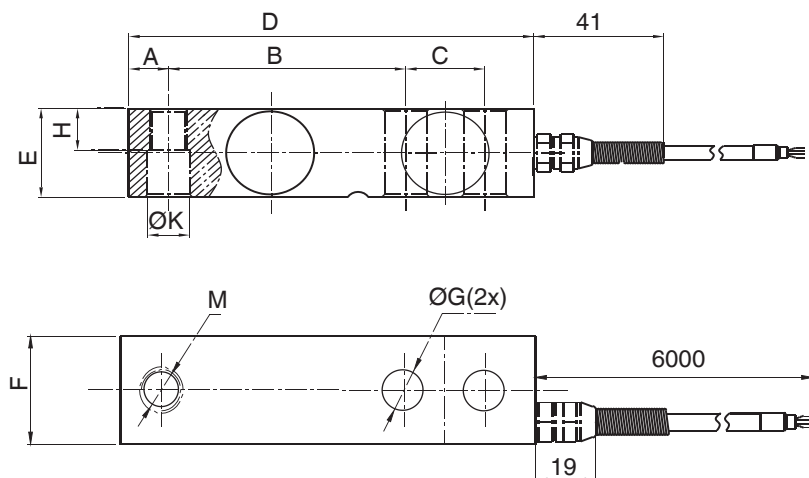
注：屏蔽线不与弹性体相连。

Cable shield is not connected to element.

F3831



尺寸及量程 / Size and Capacity



SIZE(mm)	A	B	C	D	E	F	G	H	K	M	材料/Material	重量 / Weight
CAP (t)												
0.25/0.5/0.75/1/1.5/2/2.5	12.7	76.2	25.4	130	31.8	31.8	13	15.7	13.5	M12×1.75	不锈钢 / Stainless steel	1.0kg
3/5	19	95.3	38.1	171.5	38.1	38.1	20	26	20	M18×1.5	合金钢 / Alloy steel	1.9kg
7.5/10	25.3	124	50.8	225.5	50.8	50.8	27	25.4	27	M24×2		4.5kg



技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0±0.002 mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.03%F.S.
滞后	Hysteresis	±0.03%F.S.
重复性	Repeatability	±0.03%F.S.
蠕变 (30 分钟)	Creep (30min)	±0.03%F.S.
灵敏度温度漂移	Temp. effect on output	±0.025%F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.025%F.S. / 10°C
输入电阻	Input impedance	385±10 Ω
输出电阻	Output impedance	350±5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	≤5t: φ5x6,000mm >5t: φ6x6,000mm
防护等级	Protection class	P67
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

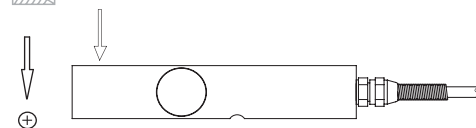


特点和用途 / Features&Applications

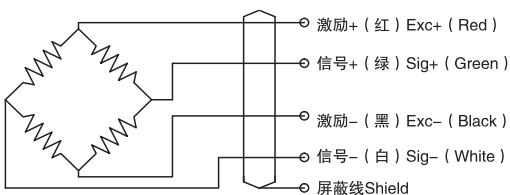
- 悬臂梁结构
- 不锈钢或合金钢材料
- 抗偏载、超载能力强，长期稳定性好
- 最大量程：10t
- 用于各类地衡、汽车综合性能检测线、料斗秤、托盘秤、台秤以及罐体称重
- 可以提供本安防爆，Ex ia IIC T4 Ga
- Shear beam
- Made of stainless steel or alloy steel
- Long-term stability and high side load tolerance
- Max. capacity: up to 10t
- Mainly used for floor scales, vehicle-test line, hopper scales, platform, pallet scales and tank weighing
- Ex proof version possible, Ex ia IIC T4 Ga



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

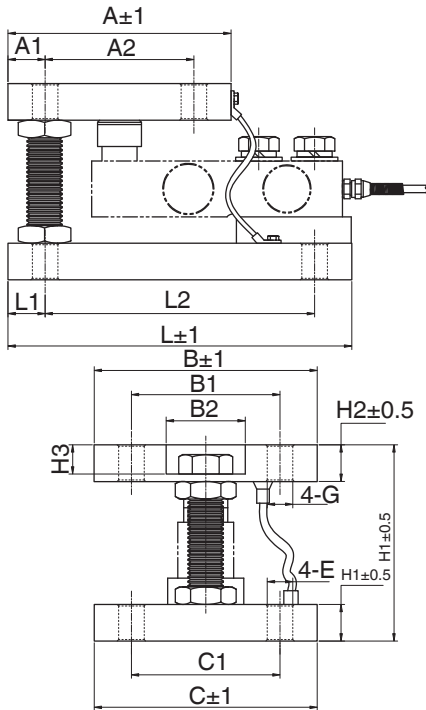


注：屏蔽线不与弹性体相连。

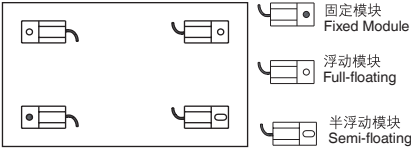
Cable shield is not connected to element.

AZK02

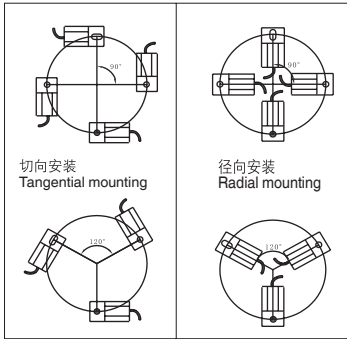
尺寸及量程 / Size and Capacity



安装示意图 / Mounting



注：需配接线盒 B6578 整合信号并输出。
Note: Junction box B6578 is required for trimming of a signal.



量程 /Capacity (t)	材料 /Material	重量 /Weight
0.25/0.5/0.75/1/1.5/2 /2.5/3/5/7.5/10	不锈钢/Stainless steel 合金钢/Alloy steel	7.0kg

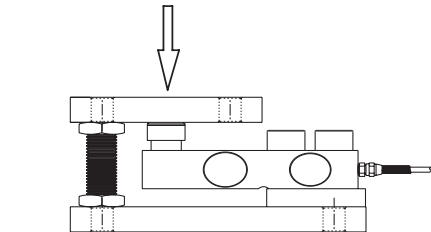
Capacity(t)	L	L1	L2	A	A1	A2	B	B1	B2	C	C1	H	H1	H2	H3	G	E
0.5/1/1.5/2/2.5	177.8	12.7	152.4	114.3	12.7	88.9	114.3	88.9	56	114.3	88.9	104.8	19.5	25.4	15.4	Φ11	Φ11
3/5	235.0	25.4	184.2	152.4	25.4	101.6	152.4	101.6	68	152.4	101.6	136.5	25.4	31.8	16.5	Φ17.5	Φ17.5
7.5/10	355.6	25.4	304.8	203.2	25.4	152.4	203.2	152.4	80	203.2	152.4	190.5	44.5	44.5	25.0	Φ21.0	Φ21.0



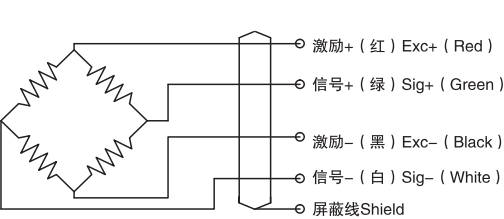
特点和用途 / Features&Applications

- 不锈钢或合金钢材料
- 与传感器 F3831 配套使用
- 用于各类地衡、汽车综合性能检测线、料斗秤、托盘秤、台秤
- Made of stainless steel or alloy steel
- Suitable for sensor F3831
- Mainly used for floor scales, vehicle-test line, hopper scales, platform and pallet scales

受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

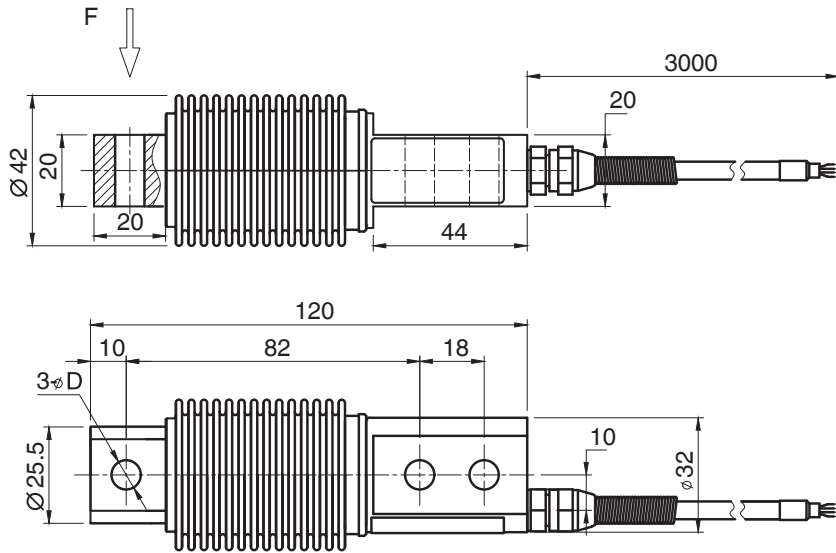


注：屏蔽线不与弹性体相连。
Cable shield is not connected to element.

F3833



尺寸及量程 / Size and Capacity



CAP (kg)	SIZE(mm)	D	材料 / Material	重量 / Weight
10/20/30/40/50/75/100/150/200/250	8.2		不锈钢 / Stainless steel	0.6kg
300/500	10.2			



技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0±0.002 mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.02% F.S.
滞后	Hysteresis	±0.02% F.S.
重复性	Repeatability	±0.02% F.S.
蠕变 (30 分钟)	Creep (30min)	±0.02% F.S.
灵敏度温度漂移	Temp. effect on output	±0.02% F.S./10°C
零点温度漂移	Temp. effect on zero	±0.02% F.S./10°C
输入电阻	Input impedance	385 ± 10 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	300% F.S.
电缆线尺寸	Cable size	Ø5×3000 mm
防护等级	Protection class	IP68
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

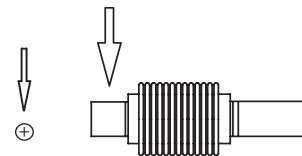


特点和用途 / Features&Applications

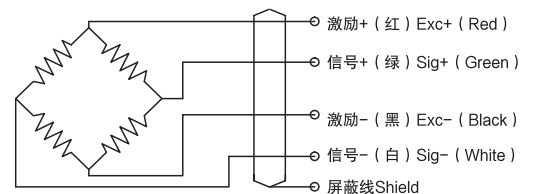
- 波纹式悬臂梁结构
- 不锈钢材料
- 波纹管激光焊封, IP68
- 适用于小型料斗秤、包装秤、给料机、托盘秤、台秤和其他电子称重设备
- 可提供本安防爆, Ex ia IIC T4 Ga
- Bending beam with bellows protection
- Made of stainless steel
- Welded-on metal bellows, IP68
- Mainly used for small hopper scales, packing scales, feeder machines, platform and pallet scales
- Ex proof version possible, Exia IIC T4 Ga



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

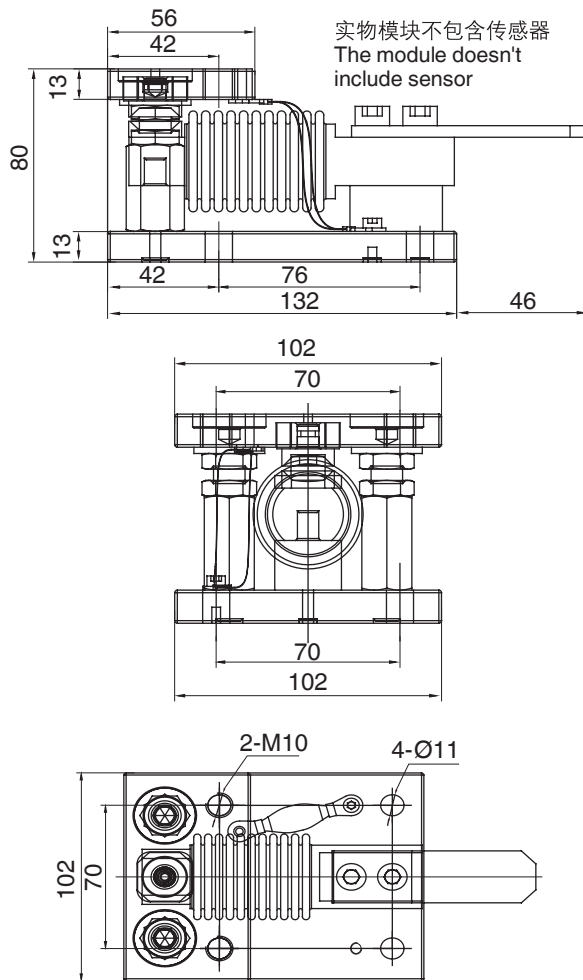


注: 屏蔽线不与弹性体相连。

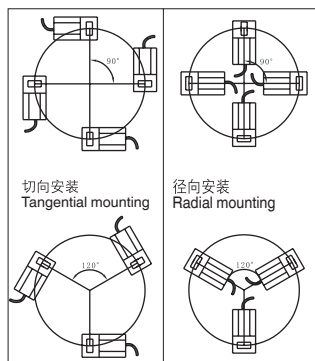
Cable shield is not connected to element.



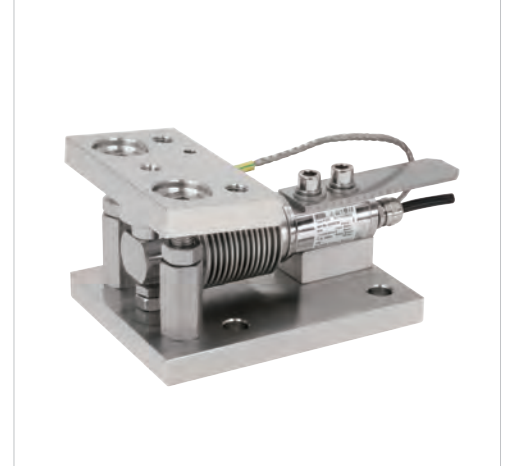
尺寸及量程 / Size and Capacity



安装示意图 / Mounting



量程 / Capacity (kg)	材料 / Material	重量 / Weight
10/20/30/40/50/75/100 150/200/250/300/500	不锈钢/Stainless Steel	2.4kg

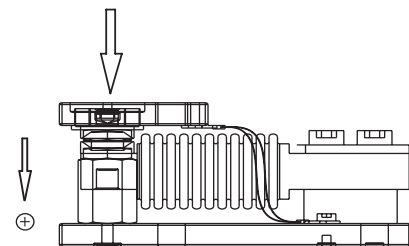


特点和用途 / Features&Applications

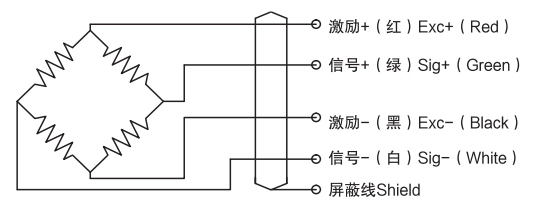
- 不锈钢材料
- 可与传感器 F3833 配套使用
- 适用于料斗秤、包装秤、给料机及工业称重系统
- Made of stainless steel
- Suitable for sensor F3833
- Mainly used for hopper scales, packing scales, feeder and industrial weighing systems



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

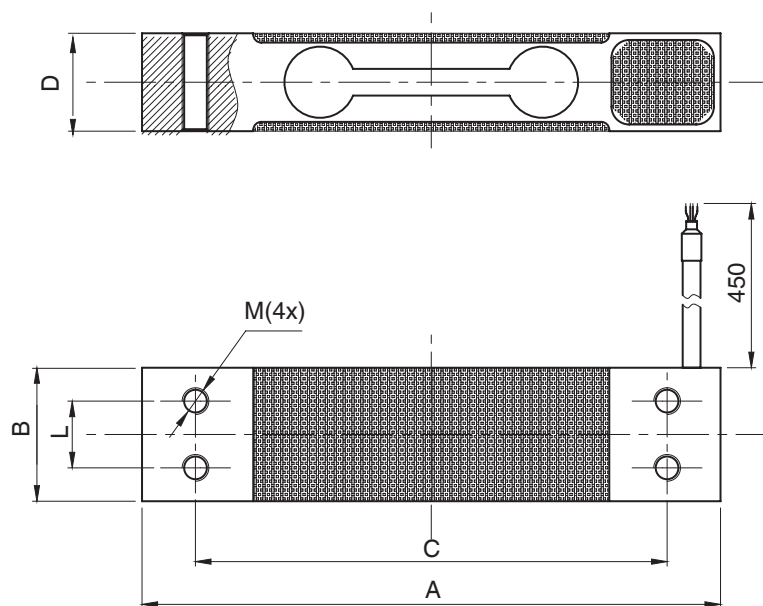


注：屏蔽线不与弹性体相连。

Cable shield is not connected to element.

F4801

尺寸及量程 / Size and Capacity



CAP (kg)	SIZE (mm)	A	B	C	D	L	M	材料 / Material	重量 / Weight
3/4/5/6/8/10/15/20/25/30/40/45/50		130	30	106	22	15	M6	铝合金 / Aluminum alloy	0.3kg
60/100/150/200/250		130	50	106	22	25	M8		0.4kg

技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0±0.2 mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.02% F.S.
滞后	Hysteresis	±0.02% F.S.
重复性	Repeatability	±0.02% F.S.
蠕变 (30分钟)	Creep (30min)	±0.02% F.S.
灵敏度温度漂移	Temp. effect on output	±0.02% F.S. / 10°C
零点温度漂移	Temp effect on zero	±0.02% F.S. / 10°C
输入电阻	Input impedance	410 ± 10 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
使用电压	Recommended excitation	5...10VDC
最大使用电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø4 × 450 mm
台面尺寸	Platform size	250 × 300 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

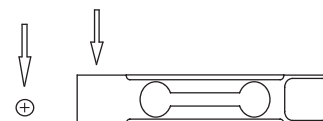


特点和用途 / Features&Applications

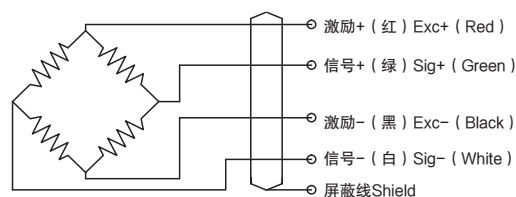
- 单点式平行梁结构传感器
- 铝合金材料, 抗偏载能力强, IP65
- 精度高、最小量程 3kg
- 专为电子秤设计, 适用于仅用一个低外形的传感器的台秤
- 适用于计价秤、计数秤等电子称重装置

- Single point load cell
- Made of anodized aluminum alloy, high side load tolerance, IP65
- High accuracy, the minimum capacity is 3kg
- Designed for electronic scales and platform scales where only one load cell can be used and low profile is required
- Mainly used for pricing scales, counting scales and other weighing devices

受力方式 / Load Direction

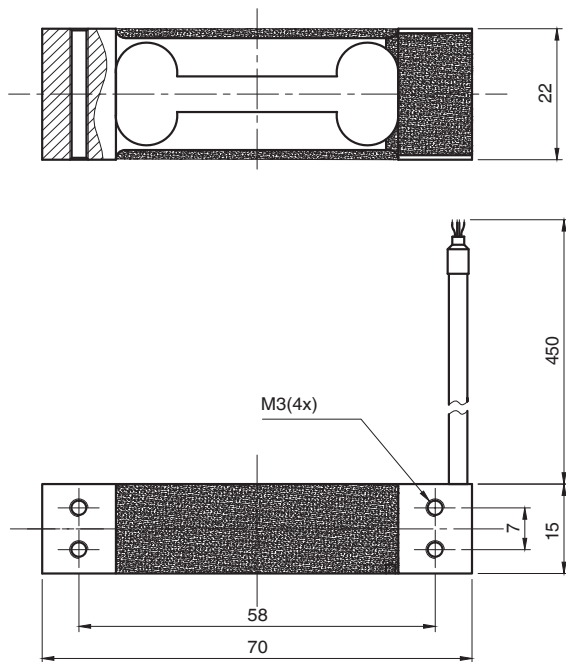


接线图 / Schematic Wiring Diagram



注: 屏蔽线不与弹性体相连。
Cable shield is not connected to element.

尺寸及量程 / Size and Capacity



量程 / Capacity (kg)	材料 / Material	重量 / Weight
0.3/0.5/1/1.5/2/3/4/5/10	铝合金 / Aluminum alloy	0.1kg

技术参数 / Technical Parameters

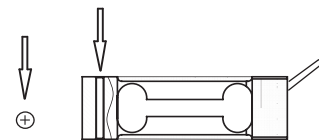
参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	1.0±0.1 mV/V (0.3...0.5kg) 2.0±0.2 mV/V (1...10kg)
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.02% F.S.
滞后	Hysteresis	±0.02% F.S.
重复性	Repeatability	±0.02% F.S.
蠕变 (30分钟)	Creep (30min)	±0.02% F.S.
灵敏度温度漂移	Temp. effect on output	0.025% F.S. / 10°C
零点温度漂移	Temp. effect on zero	0.025% F.S. / 10°C
输入电阻	Input impedance	410±10 Ω
输出电阻	Output impedance	350±5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø3×450 mm
台面尺寸	Platform size	200×200 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



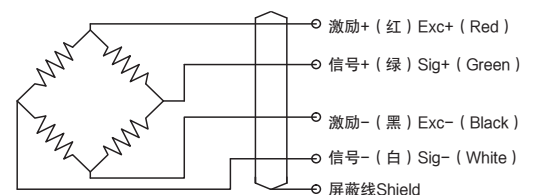
特点和用途 / Features&Applications

- 单点式平行梁结构传感器
- 铝合金材料，表面氧化
- 精度高，抗偏载能力强
- 结构非常紧凑，很轻，外形轮廓低，并且易于安装，IP65
- 适用于计价秤、计数秤、电子天平
- Single point load cell
- Made of aluminum alloy, surface anodized
- High accuracy, high side load tolerance
- Compact structure, very light, small size with profile, and easy to install, very stable, IP65
- Mainly used for pricing scales, counting scales, balance, etc

受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

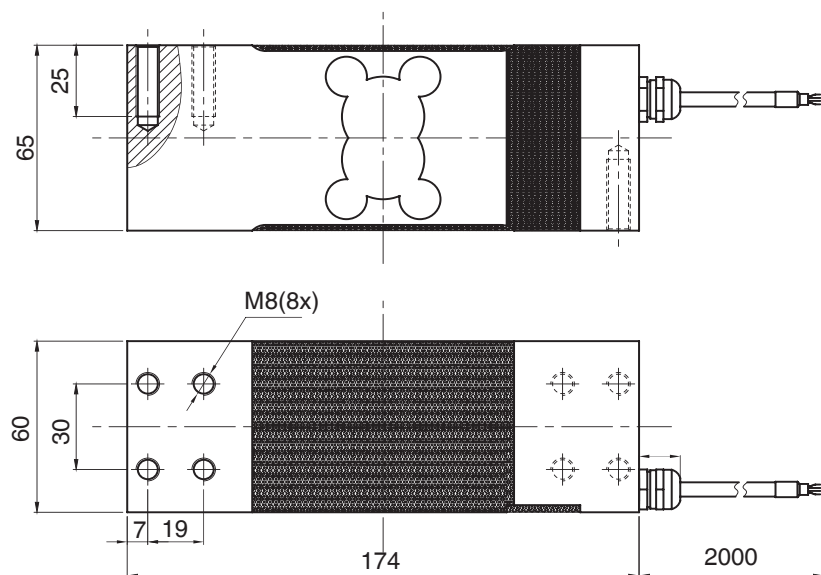


注：屏蔽线不与弹性体相连。
Cable shield is not connected to element.

F4812



尺寸及量程 / Size and Capacity



量程 / Capacity (kg)	材料 / Material	重量 / Weight
50/100/150/200/250/ 300/500/650	铝合金 / Aluminum alloy	1.8kg



技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0±0.2 mV/V
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.02% F.S.
滞后	Hysteresis	±0.02% F.S.
重复性	Repeatability	±0.02% F.S.
蠕变 (30 分钟)	Creep(30min)	±0.02% F.S.
灵敏度温度漂移	Temp. effect on output	±0.025% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.025% F.S. / 10°C
输入电阻	Input impedance	410±10 Ω
输出电阻	Output impedance	350±5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø5×2000 mm
台面尺寸	Platform size	450×550 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

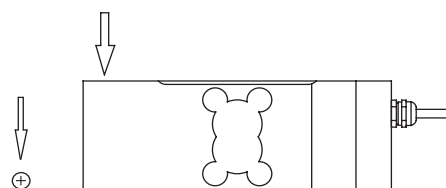


特点和用途 / Features & Applications

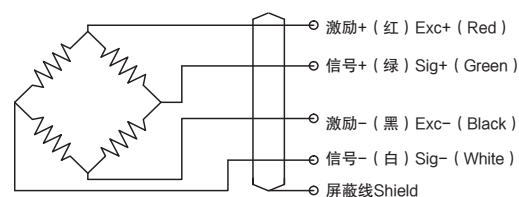
- 单点式平行梁结构传感器
- 铝合金材料
- 精度高、抗偏载能力强
- 长期稳定性好
- 容易安装, IP65
- 适用于台秤、包装秤、过程称重设备等
- Single point load cell
- Made of anodized aluminum alloy
- High accuracy, high side load tolerance
- High stability
- Easy to install, IP65 protection
- Mainly used for platform scales, packaging scales, process weighing equipments, etc



受力方式 / Load Direction

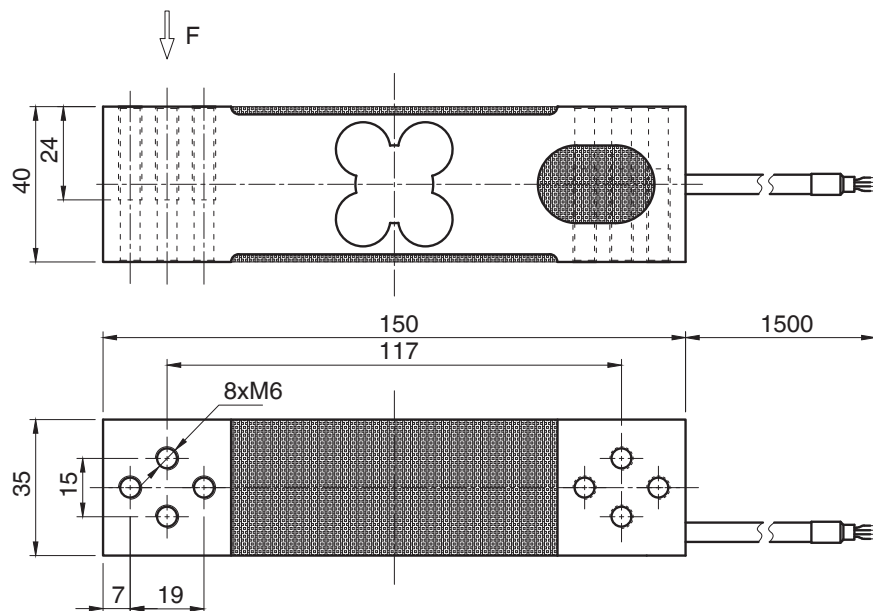


接线图 / Schematic Wiring Diagram



注: 屏蔽线不与弹性体相连。

Cable shield is not connected to element.

 尺寸及量程 / Size and Capacity


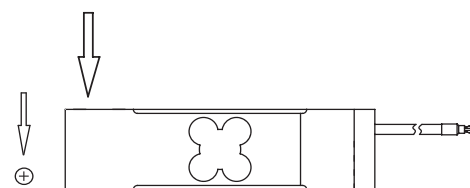
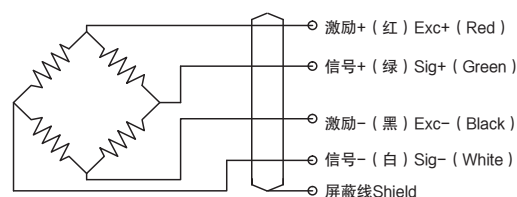
量程 / Capacity (kg)	材料 / Material	重量 / Weight
20/30/50/60/100/150/ 200/250/300/350/500	铝合金 / Aluminum alloy	0.6kg

 技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0± 0.2 mV/V
零点输出	Zero balance	± 2% F.S.
非线性	Non-linearity	±0.02%F.S.
滞后	Hysteresis	±0.02%F.S.
重复性	Repeatability	±0.02%F.S.
蠕变 (30分钟)	Creep (30min)	±0.02%F.S.
灵敏度温度漂移	Temp. effect on output	±0.025%F.S. / 10℃
零点温度漂移	Temp. effect on zero	±0.025%F.S. / 10℃
输入电阻	Input impedance	410± 10 Ω
输出电阻	Output impedance	350± 5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	-10 ... 40℃
工作温度范围	Operation temp. range	-20 ... 65℃
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø5× 1500 mm
台面尺寸	Platform size	450× 450 mm
防护等级	Protection class	IP 65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

 特点和用途 / Features&Applications

- 单点式平行梁结构传感器
- 铝合金材料
- 精度高、抗偏载能力强, IP65
- 两侧各有 4 个安装孔, 易于安装, 测力更准确。
- 适用于计价秤、计数秤、台秤
- Single point load cell
- Made of anodized aluminum alloy
- High accuracy, high side load tolerance, IP65 protection
- For high accuracy and easy installation
4 holes on both sides provided
- Mainly used for pricing scales, counting scales, platform scales

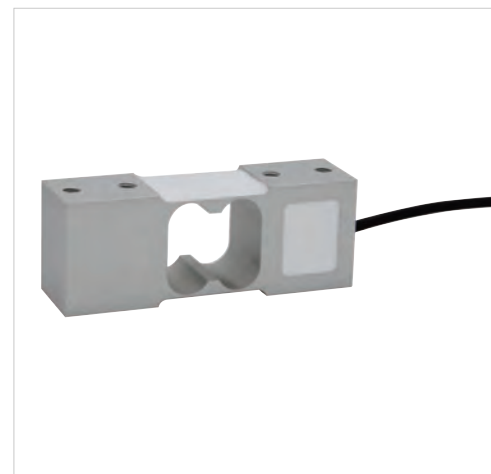
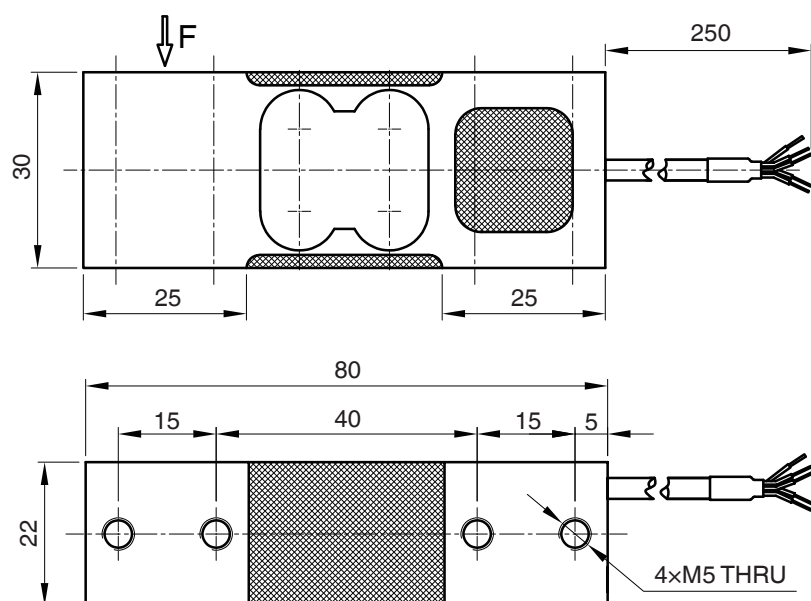
 受力方式 / Load Direction

 接线图 / Schematic Wiring Diagram


注: 屏蔽线不与弹性体相连。
Cable shield is not connected to element.



尺寸及量程 / Size and Capacity

Variant A

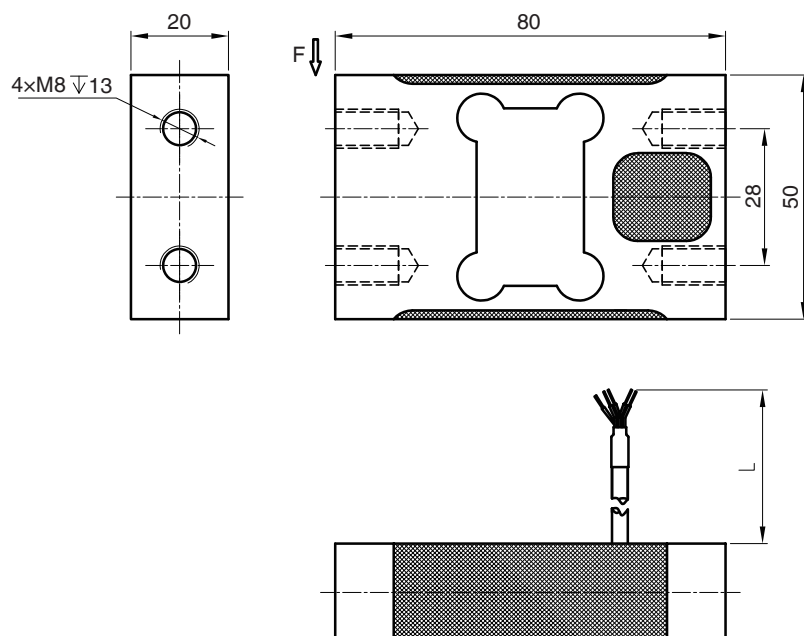


特点和用途 / Features&Applications

- 优秀的动态响应性，称重效率高
- 紧凑的安装尺寸，适用于各种安装方式
- 综合精度高，对温度变化不敏感
- 偏心负载补偿
- 极具性价比的称重解决方案
- 用于各种尺寸的多头秤称重应用

- Excellent dynamic responsiveness, to raise weighing efficiency
- Compact mounting dimensions, suitable for all kinds of mounting
- High accuracy with low temperature drift
- Off-center load compensation
- Extremely cost effective weighing solution
- Suitable for all sizes of multihead weighing applications

Variant B



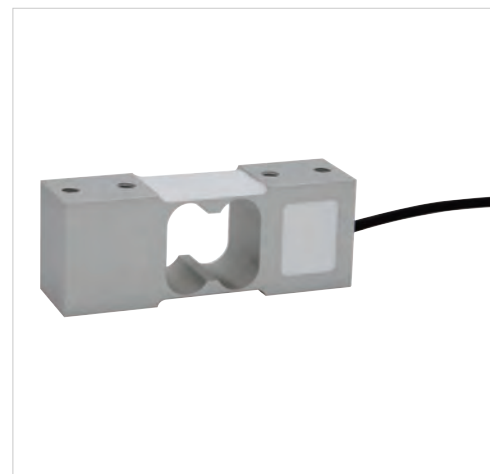
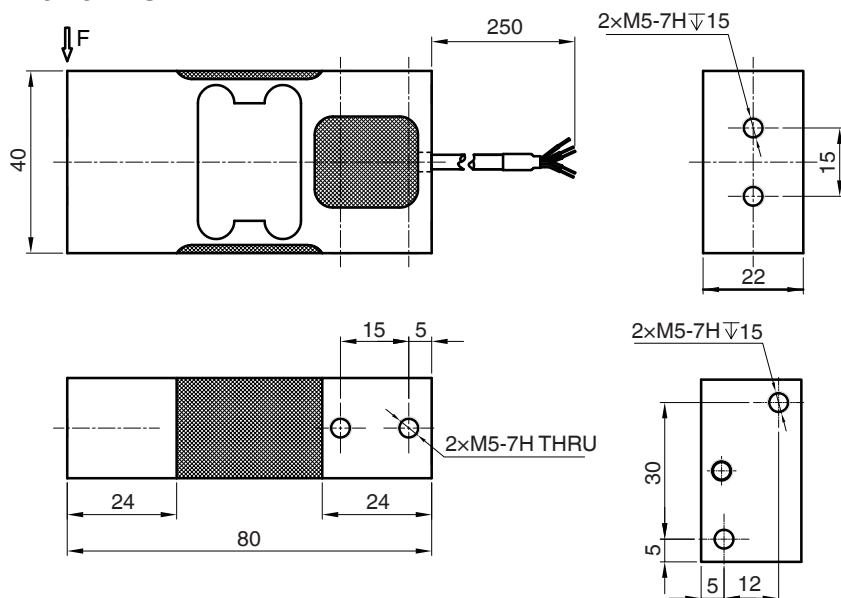
	量程 / Capacity (kg)	材料 / Material	重量 / Weight
Variant A	2/3/5/8	铝合金 / Aluminum alloy	0.1kg
Variant B	5/8/30		
Variant C	15		

F4881



尺寸及量程 / Size and Capacity

Variant C



受力方式 / Load Direction

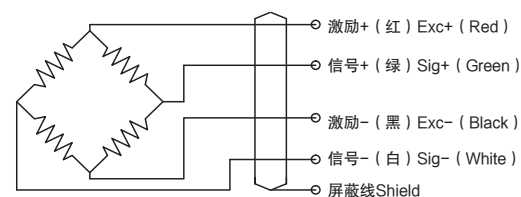


技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0 ± 0.2 mV/V
零点输出	Zero balance	± 5% F.S.
非线性	Non-linearity	± 0.02% F.S.
滞后	Hysteresis	± 0.02% F.S.
重复性	Repeatability	± 0.02% F.S.
蠕变 (30 分钟)	Creep (30min)	± 0.02% F.S.
灵敏度温度漂移	Temp. effect on output	± 0.02% F.S. / 10°C
零点温度漂移	Temp. effect on zero	± 0.014% F.S. / 10°C
输入电阻	Input impedance	410 ± 10 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥ 5000 MΩ / 100 VDC
使用电压	Recommended excitation	5...10 VDC
最大使用电压	Maximum excitation	15 VDC
温度补偿范围	Compensated temp. range	-10...+40°C
工作温度范围	Operation temp. range	-20...+65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø3
台面尺寸	Platform size	Variant A,C: 300 × 300 mm Variant B: 350 × 350 mm
防护等级	Protection class	IP67
连接方式	Cable color code	Input: Red (E+) Black (E-) Output: Green (S+) White (S-) Shield: Yellow-Green 输入: 红 (E+) 黑 (E-) 输出: 绿 (S+) 白 (S-) 屏蔽线: 黄绿



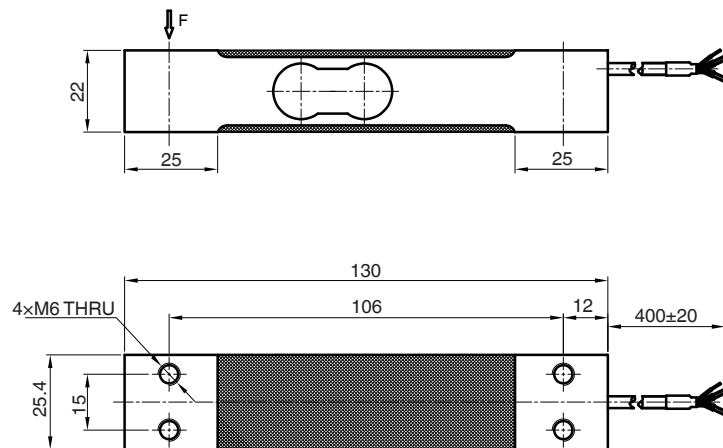
接线图 / Schematic Wiring Diagram



注: 屏蔽线接弹性体。

Shield is connected to spring body.

尺寸及量程 / Size and Capacity



量程 / Capacity (kg)	材料 / Material	重量 / Weight
3/5/7/10/15/20/30/40	铝合金 / Aluminum alloy	0.25 kg

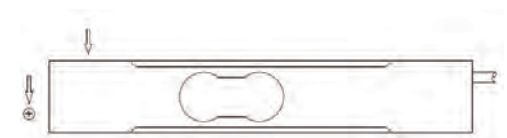
技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0 ± 0.2 mV/V
零点输出	Zero balance	± 5% F.S.
非线性	Non-linearity	± 0.02% F.S.
滞后	Hysteresis	± 0.02% F.S.
重复性	Repeatability	± 0.02% F.S.
蠕变 (30 分钟)	Creep (30min)	± 0.02% F.S.
灵敏度温度漂移	Temp. effect on output	± 0.02% F.S. / 10°C
零点温度漂移	Temp. effect on zero	± 0.014% F.S. / 10°C
输入电阻	Input impedance	410 ± 10 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥ 5000MΩ/100VDC
使用电压	Recommended excitation	5...10 VDC
最大使用电压	Maximum excitation	15 VDC
温度补偿范围	Compensated temp. range	-10...+40°C
工作温度范围	Operation temp. range	-20...+65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø4 × 400 mm
台面尺寸	Platform size	300 × 300 mm
防护等级	Protection class	IP67
连接方式	Cable color code	Input: Red (E+) Black (E-) Output: Green (S+) White (S-) Shield: Yellow-Green 输入: 红 (E+) 黑 (E-) 输出: 绿 (S+) 白 (S-) 屏蔽线: 黄绿

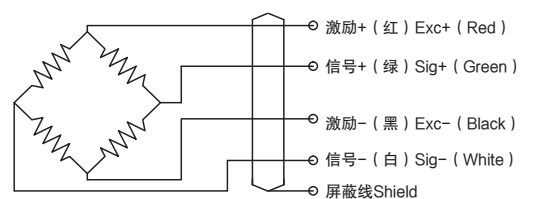
特点和用途 / Features&Applications

- 优秀的动态响应性，称重效率高
- 综合精度高，温度变化不敏感
- 偏心负载补偿
- 极具性价比的称重解决方案
- 适用于各种尺寸的检重秤、皮带秤称重应用
- Excellent dynamic responsiveness, to raise weighing efficiency
- High accuracy with low temperature drift
- Off-center load compensation
- Extremely cost effective weighing solution
- Suitable for all sizes of checkweigher and belt weighing applications

受力方式 / Load Direction



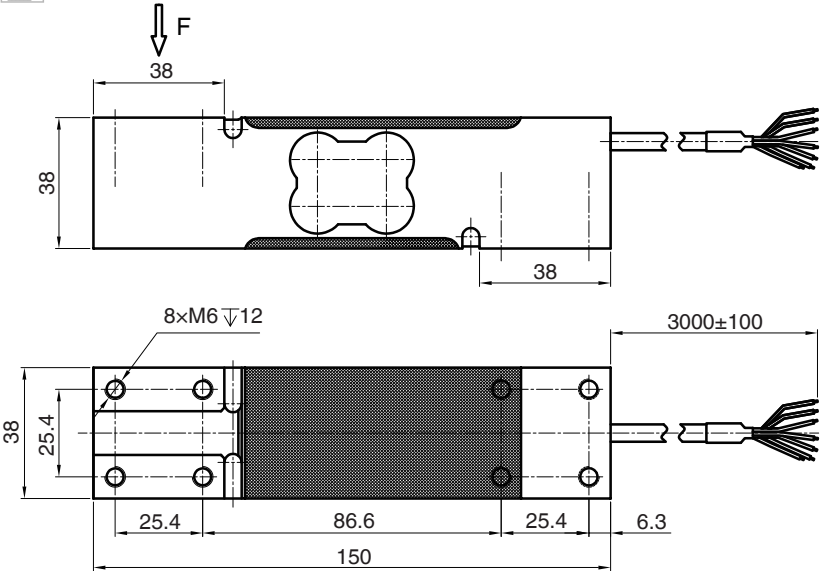
接线图 / Schematic Wiring Diagram



注：屏蔽线接弹性体。
Shield is connected to spring body.

F4883

尺寸及量程 / Size and Capacity



量程 / Capacity (kg)	材料 / Material	重量 / Weight
8/15/20/30/50/100/200/300	铝合金 / Aluminum alloy	0.6kg

技术参数 / Technical Parameters

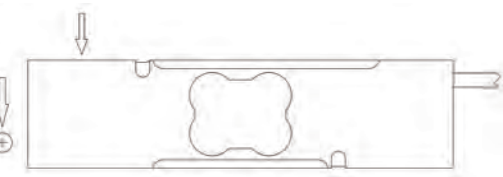
参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0± 0.2 mV/V
零点输出	Zero balance	± 5% F.S.
非线性	Non-linearity	± 0.02% F.S.
滞后	Hysteresis	± 0.02% F.S.
重复性	Repeatability	± 0.02% F.S.
蠕变 (30 分钟)	Creep (30min)	± 0.02% F.S.
灵敏度温度漂移	Temp. effect on output	± 0.02% F.S. / 10°C
零点温度漂移	Temp. effect on zero	± 0.014% F.S. / 10°C
输入电阻	Input impedance	410 ± 10 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥ 5000MΩ/100VDC
使用电压	Recommended excitation	5...10 VDC
最大使用电压	Maximum excitation	15 VDC
温度补偿范围	Compensated temp. range	-10...+40°C
工作温度范围	Operation temp. range	-20...+65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S. (100kg...300kg) 300% F.S. (8kg...50kg)
电缆线尺寸	Cable size	Ø5 × 3,000 mm
台面尺寸	Platform size	600 × 500 mm
防护等级	Protection class	IP67
连接方式	Cable color code	Input: Red (Exc+) Black (Exc-) Sense: Blue (Sen+) Yellow (Sen-) Output: Green (Sig+) White (Sig-) Yellow-Green: Shield 输入: 红 (Exc+) 黑 (Exc-) 输出: 蓝 (Sen+) 黄 (Sen-) 输出: 绿 (Sig+) 白 (Sig-) 屏蔽线: 黄绿



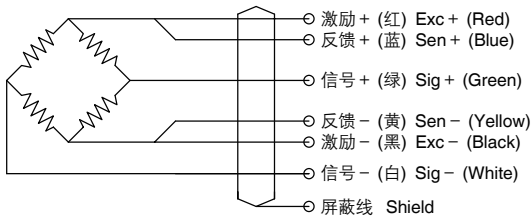
特点和用途 / Features&Applications

- 优秀的动态响应性，称重效率高
- 综合精度高，对温度变化不敏感
- 偏心负载补偿
- 极具性价比的称重解决方案
- 适用于尺寸的检重秤、皮带秤、包装秤称重应用
- Excellent dynamic responsiveness, to raise weighing efficiency
- High accuracy with low temperature drift
- Off-center load compensation
- Extremely cost effective weighing solution
- Suitable for all sizes of checkweigher, belt scale and packaging machine weighing applications

受力方式 / Load Direction

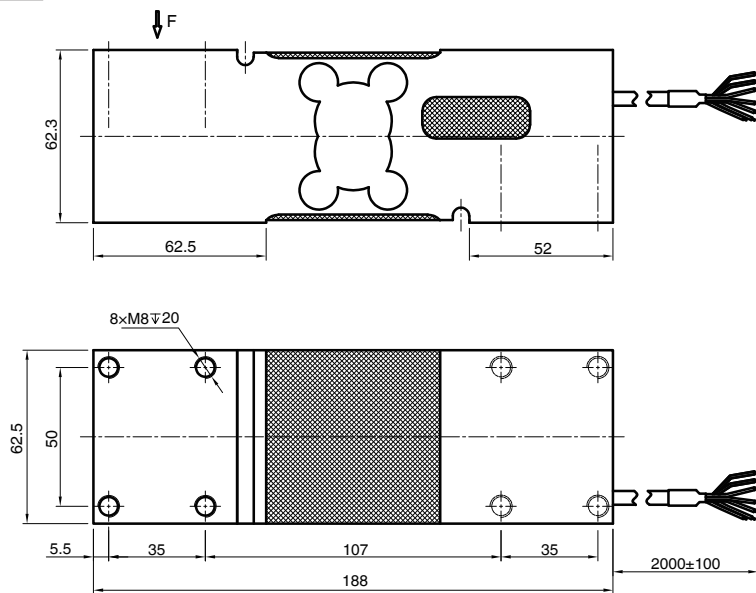


接线图 / Schematic Wiring Diagram





尺寸及量程 / Size and Capacity



量程 / Capacity (kg)	材料 / Material	重量 / Weight
50/75/100/150/200/ 250/300/500/635	铝合金 / Aluminum alloy	2 kg



技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	$2.0 \pm 0.2 \text{ mV/V}$
零点输出	Zero balance	$\pm 5\% \text{ F.S.}$
非线性	Non-linearity	$\pm 0.02\% \text{ F.S.}$
滞后	Hysteresis	$\pm 0.02\% \text{ F.S.}$
重复性	Repeatability	$\pm 0.02\% \text{ F.S.}$
蠕变 (30 分钟)	Creep (30min)	$\pm 0.02\% \text{ F.S.}$
灵敏度温度漂移	Temp. effect on output	$\pm 0.02\% \text{ F.S.} / 10^\circ\text{C}$
零点温度漂移	Temp. effect on zero	$\pm 0.014\% \text{ F.S.} / 10^\circ\text{C}$
输入电阻	Input impedance	$410 \pm 20 \Omega$
输出电阻	Output impedance	$350 \pm 3 \Omega$
绝缘电阻	Insulation	$\geq 5000 \text{ M}\Omega / 100 \text{ VDC}$
使用电压	Recommended excitation	5...10 VDC
最大使用电压	Maximum excitation	15 VDC
温度补偿范围	Compensated temp. range	$-10 \dots +40^\circ\text{C}$
工作温度范围	Operation temp. range	$-20 \dots +65^\circ\text{C}$
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	$\varnothing 5 \times 2,000 \text{ mm}$
台面尺寸	Platform size	$600 \times 600 \text{ mm}$
防护等级	Protection class	IP67
连接方式	Cable color code	Input: Red (Exc+) Black (Exc-) Sense: Blue (Sen+) Yellow (Sen-) Output: Green (Sig+) White (Sig-) Shield: Yellow-Green 输入: 红 (Exc+) 黑 (Exc-) 反馈: 蓝 (Sen+) 黄 (Sen-) 输出: 绿 (Sig+) 白 (Sig-) 屏蔽线: 黄绿



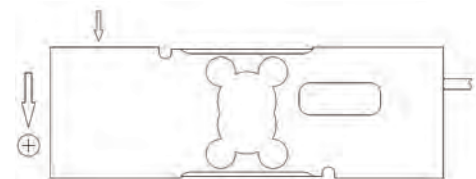
特点和用途 / Features&Applications

- 优秀的动态响应性，称重效率高
- 综合精度高，对温度变化不敏感
- 偏心负载补偿
- 极具性价比的称重解决方案
- 适用于大量程和大尺寸的检重秤、皮带秤称重应用

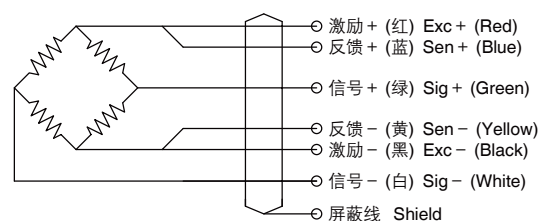
- Excellent dynamic responsiveness, to raise weighing efficiency
- High accuracy with low temperature drift
- Off-center load compensation
- Extremely cost effective weighing solution
- Suitable for high rating and big sizes of checkweigher and belt weighing applications



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram

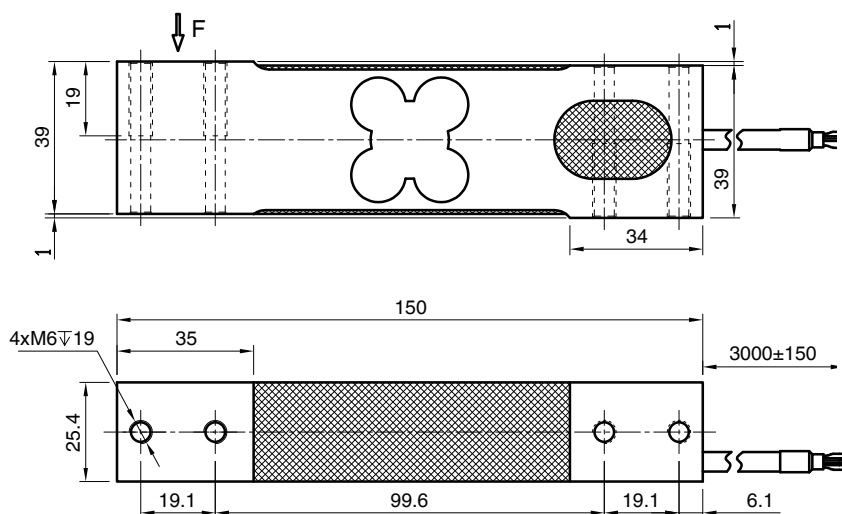


注：屏蔽线接弹性体。
Shield is connected to spring body.

F4885



尺寸及量程 / Size and Capacity



量程 / Capacity (kg)	材料 / Material	重量 / Weight
1/3/5/7/10/15/20/30/50/75/100/150/200	铝合金 / Aluminum alloy	0.5kg



技术参数 / Technical Parameters

参数	Specifications	技术指标 / Technique
输出灵敏度	Rated output	2.0 ± 0.2 mV/V
零点输出	Zero balance	± 5% F.S.
非线性	Non-linearity	±0.02% F.S.
滞后	Hysteresis	±0.02% F.S.
重复性	Repeatability	±0.02% F.S.
蠕变 (30分钟)	Creep (30min)	±0.02% F.S.
灵敏度温度漂移	Temp. effect on output	±0.02% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.014% F.S. / 10°C
输入电阻	Input impedance	410 ± 20 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥5000MΩ/100VDC
使用电压	Recommended excitation	5...10 VDC
最大使用电压	Maximum excitation	15 VDC
温度补偿范围	Compensated temp. range	-10...+40°C
工作温度范围	Operation temp. range	-20...+65°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	20...100kg: 300 % F.S. 150...300kg: 200 % F.S.
电缆线尺寸	Cable size	Ø5×3,000 mm
台面尺寸	Platform size	450×450 mm
防护等级	Protection class	IP67
连接方式	Cable color code	Input: Red (Exc+) Black (Exc-) Sense: Blue (Sen+) Yellow (Sen-) Output: Green (Sig+) White (Sig-) Shield: Yellow-Green 输入: 红 (Exc+) 黑 (Exc-) 反馈: 蓝 (Sen+) 黄 (Sen-) 输出: 绿 (Sig+) 白 (Sig-) 屏蔽线: 黄绿



特点和用途 / Features & Applications

- 优秀的动态响应性，称重效率高
- 综合精度高，对温度变化不敏感
- 偏心负载补偿
- 极具性价比的称重解决方案
- 适用于多种量程的包装秤称重应用

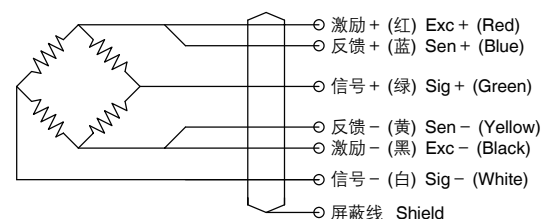
- Excellent dynamic responsiveness, to raise weighing efficiency
- High accuracy with low temperature drift
- Off-center load compensation
- Extremely cost effective weighing solution
- Suitable for weighing applications with a wide range of packaging scales



受力方式 / Load Direction



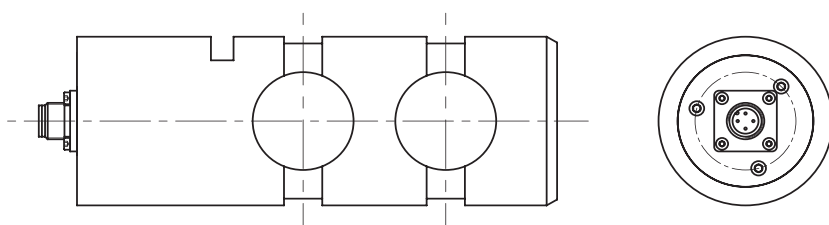
接线图 / Schematic Wiring Diagram



屏蔽线接弹性体。

Shield is connected to spring body.

F5802

 尺寸及量程 / Size and Capacity


注：可根据客户需求定制产品。
Note: Dimensions acc customer requirement.

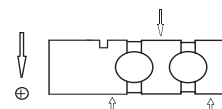
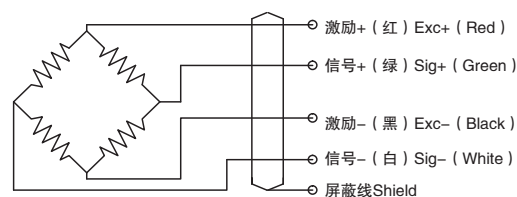
量程 /Capacity (kg)	材料 /Material
200~1,000,000	不锈钢 /Stainless steel

 技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出信号	Rated output	4...20mA/0...10V
非线性	Non-linearity	±0.5%...1%F.S.
滞后	Hysteresis	±0.5%...1%F.S.
重复性	Repeatability	±0.5%...1%F.S.
灵敏度温度漂移	Temp. effect on output	±0.2%F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.2%F.S. / 10°C
输入电阻	Input impedance	2,000±100Ω
输出电阻	Output impedance	2,000±50Ω
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	18...30VDC
最大激励电压	Maximum excitation	30V
负载阻抗	Burden impedance	(UB-7.5V)/0.24A
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	300% F.S.
电缆线尺寸	Cable size	M12×1-4P
防护等级	Protection class	IP67
负载	Burden	for current output 电流输出 < (UB-7.5 V)/0.024 A for voltage output 电压输出 > 10 kΩ
连接方式	Cable color code	(可定制)


 特点和用途 / Features&Applications

- 不锈钢材料，长期稳定性好
- 安装在塔机、吊车装载轴销部分，可取代现有的转轴，防止超载
- 适用于港口、码头货物计量及启闭机、起吊设备的安全检测
- 尺寸及形状可定制，IP67
- Made of stainless steel, long term stability
- Used in overload tower cranes and hoisting cranes for prevention
- Can be used as replacement for existing shafts
- Used for port, terminal and cargo cranes as well as hoist, lifting equipment and safety testing applications
- Shape and size customized, IP67 protection

 受力方式 / Load Direction

 接线图 / Schematic Wiring Diagram


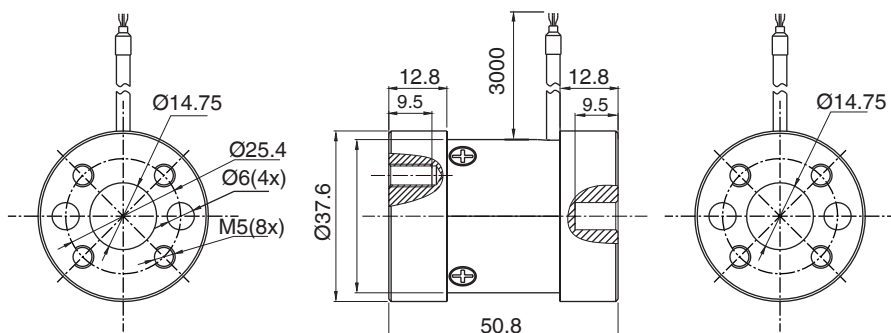
注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to the element.

F9801



尺寸及量程 / Size and Capacity



量程 / Capacity (Nm)	材料 / Material	重量 / Weight
1/2/3/ 5/6/ 10/20/30/50/100/150	铝合金/Aluminum alloy	0.2kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	$2.0 \pm 0.2 \text{ mV/V}$
零点输出	Zero balance	$\pm 2\% \text{ F.S.}$
非线性	Non-linearity	$\pm 0.5\% \text{ F.S.}$
滞后	Hysteresis	$\pm 0.25\% \text{ F.S.}$
重复性	Repeatability	$\pm 0.1\% \text{ F.S.}$
蠕变 (30分钟)	Creep (30min)	$\pm 0.5\% \text{ F.S.}$
灵敏度温度漂移	Temp. effect on output	$\pm 0.05\% \text{ F.S.} / 10^\circ\text{C}$
零点温度漂移	Temp. effect on zero	$\pm 0.05\% \text{ F.S.} / 10^\circ\text{C}$
输入电阻	Input impedance	$410 \pm 10 \Omega$
输出电阻	Output impedance	$350 \pm 5 \Omega$
绝缘电阻	Insulation	$\geq 5000 \text{ M}\Omega$
激励电压	Recommended excitation	5...10VDC
最大激励电压	Maximum excitation	15VDC
温度补偿范围	Compensated temp. range	$-10 \dots 40^\circ\text{C}$
工作温度范围	Operation temp. range	$-20 \dots 80^\circ\text{C}$
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
电缆线尺寸	Cable size	$\varnothing 3 \times 3000 \text{ mm}$
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



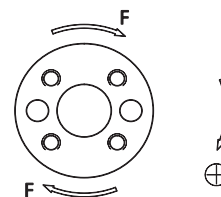
特点和用途 / Features&Applications

- 静态扭矩传感器
- 铝合金材料
- 结构紧凑，便于安装
- 防护等级：IP65
- 适用于静态、非连续旋转的扭矩力值测量，

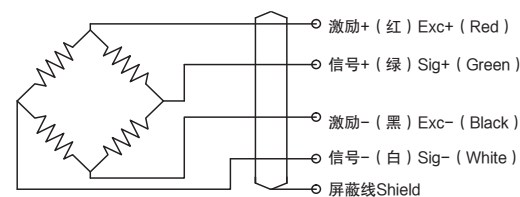
- Static torque sensor
- Made of anodized aluminum alloy
- Compact structure, easy to install
- IP65 protection
- Used for static, non-continuous rotational, torque measurement



受力方式 / Load Direction



接线图 / Schematic Wiring Diagram



注：屏蔽线不与弹性体相连。

Note: Cable shield is not connected to the element.

Technical drawing of a circular flange with a central hole and eight radial slots. The side view shows a total thickness of 75, with a central hole of diameter Ø76 and outer flange thicknesses of 6 and 0.5. The top view shows a central hole of Ø50, an outer diameter of Ø66, and eight radial slots of width 8x10 and depth 3000. A 45-degree chamfer is indicated on the outer edge.

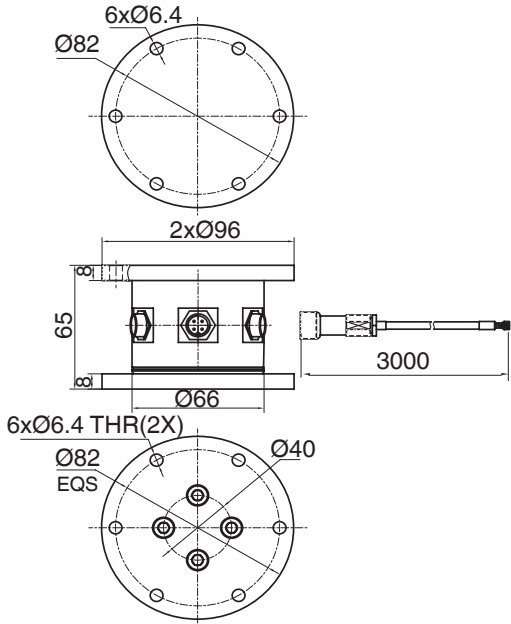
A diagram of a ring divided into four equal segments by four radial lines. The top and bottom segments are shaded gray. The left and right segments are white. At the top of the ring, a curved arrow labeled F points to the right. At the bottom of the ring, a curved arrow labeled F points to the left.



Note: Cable shield is not connected to the element.



尺寸及量程 / Size and Capacity



量程 /Capacity(kg)	材料 /Material	重量 /Weight
X: 20/30/50/100/150/200/300/500 Y: 20/30/50/100/150/200/300/500 Z: 30/50/100/200/300/500/1k	不锈钢/Stainless steel	1.8kg

注：三个方向的力的相互干扰误差 ≤5%。
Note: Interference among three dimensions ≤ 5%.



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.0 ± 10% mV/V
零点输出	Zero balance	± 2% F.S.
非线性	Non-linearity	± 0.5% F.S.
滞后	Hysteresis	± 0.25% F.S.
重复性	Repeatability	± 0.25% F.S.
蠕变 (30分钟)	Creep (30min)	± 0.2% F.S.
灵敏度温度漂移	Temp. effect on output	± 0.05% F.S. / 10℃
零点温度漂移	Temp. effect on zero	± 0.05% F.S. / 10℃
输入电阻	Input impedance	385 ± 30 Ω
输出电阻	Output impedance	350 ± 5 Ω
绝缘电阻	Insulation	≥ 5000 MΩ
激励电压	Recommended excitation	5...10 VDC
最大激励电压	Maximum excitation	15 VDC
温度补偿范围	Compensated temp. range	-10 ... 40℃
工作温度范围	Operation temp. range	-20 ... 80℃
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	3 × Ø5 × 3000 mm
防护等级	Protection class	IP65
连接方式(3X)	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);

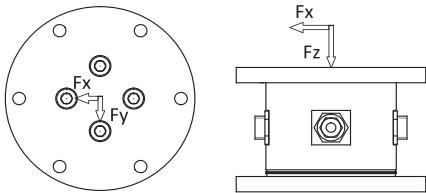


特点和用途 / Features&Applications

- 三维力的测量
- 不锈钢材料
- 坚固耐用
- IP65
- 相互干扰误差小
- 用于机器人手过载保护
- 自动化工具，用于测试机组
- 形状尺寸可定制
- Three dimensional force sensor
- Made of stainless steel
- Rugged structure
- IP65 protection
- Small interference among three dimensions
- Used as overload protection on robot heads automation tools or test rigs
- Size can be customized



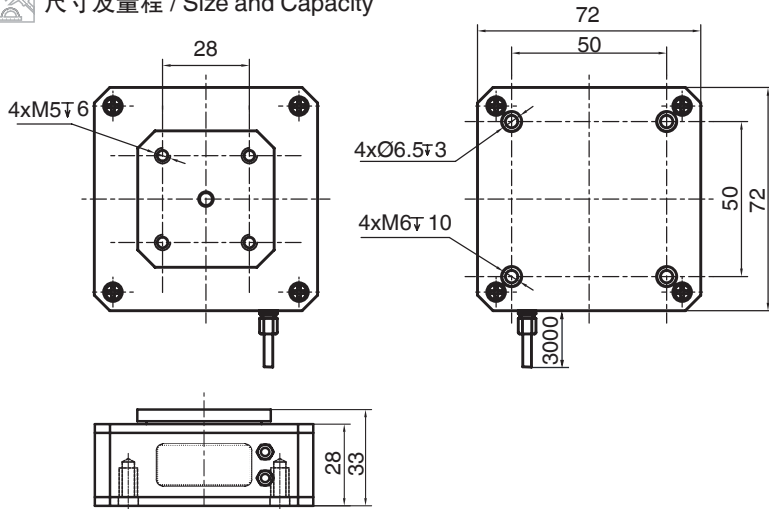
受力方式 / Load Direction



F9866



尺寸及量程 / Size and Capacity



	Fx	Fy	Fz	Mx	My	Mz	材料 / Material	重量 / Weight
量程 / Capacity	100N	100N	100N	3N.m	3N.m	10N.m	铝合金 / Aluminum alloy	0.17kg
	200N	200N	200N	6N.m	6N.m	20N.m		
	300N	300N	300N	9N.m	9N.m	30N.m		
输出灵敏度 Output(mV/V)	1.0	1.0	1.0	1.0	1.0	0.5		



技术参数 / Technical Parameters

注：六个方向的力的相互干扰误差小于 5%。
Note: Interference among six dimensions $\leq 5\%$.

参数	Specifications	技术指标/Technique (Fx,Fy,Fz,Mx,My,Mz)
零点输出	Zero balance	$\pm 2\%$ F.S.
非线性	Non-linearity	$\pm 0.5\%$ F.S.
滞后	Nysteresis	$\pm 0.5\%$ F.S.
重复性	Repeatability	$\pm 0.5\%$ F.S.
调前串扰	Crosstalk-No Adjustment	5% F.S.
调后串扰	Crosstalk-With Adjustment	2.5% F.S.
灵敏度温度漂移	Temp. effect on output	$\pm 0.5\%$ F.S. / 10°C
零点温度漂移	Temp. effect on zero	$\pm 0.5\%$ F.S. / 10°C
输出电阻	Output impedance	$350 \pm 5\Omega$
绝缘电阻	Insulation	$\geq 5000\text{M}\Omega$
激励电压	Recommended excitation	5...15VDC
最大激励电压	Maximum excitation	15VDC
工作温度范围	Operation temp. range	$-20 \dots 80^\circ\text{C}$
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	$\varnothing 2.4 \times 3000 \text{ mm (2x)}$
防护等级	Protection class	IP65
连接方式	Cable color code	Power: Exc+(Red) Exc-(Black)
		Fx: Sig+(Green) Sig-(White)
		F Channel: Fy: Sig+(Blue) Sig-(Yellow)
		Fz: Sig+(Brown) Sig-(Grey)
		Mx: Sig+(Green) Sig-(White)
		M Channel: My: Sig+(Blue) Sig-(Yellow)
		Mz: Sig+(Brown) Sig-(Grey)
		电压: 输入+(红) 输入-(黑)
		Fx: 信号+(绿) 信号-(白)
		力通道: Fy: 信号+(蓝) 信号-(黄)
		Fz: 信号+(棕) 信号-(灰)
		Mx: 信号+(绿) 信号-(白)
		力矩通道: My: 信号+(蓝) 信号-(黄)
		Mz: 信号+(棕) 信号-(灰)

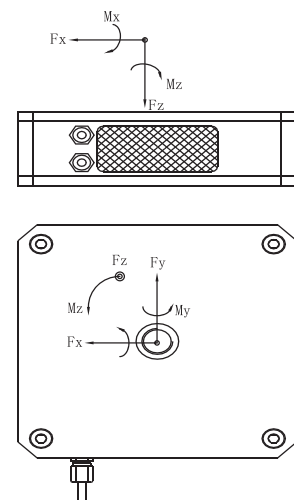


特点和用途 / Features&Applications

- 六维力测量
- 铝合金材料，安装替换方便
- 精度高
- 应用于遥控机器，机器人手术，机械手臂研究，手指力研究，精密装配，自动磨削、轮廓跟踪、双手协调
- Six dimensional force sensor
- Made of anodized aluminum alloy, easy to install and replace
- High accuracy
- Widely used for teleoperator, robotic surgery, precise assembly, automatic grinding, contour tracing, robot arms coordination

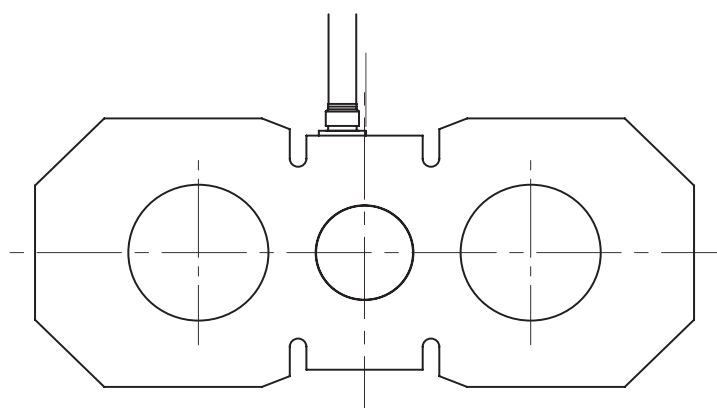


受力方式 / Load Direction





尺寸及量程 / Size and Capacity



注：可根据客户需求定制产品。
Note: Dimensions acc customer requirement.

量程 / Capacity (t)	材料 / Material
0.1~200	不锈钢 / Stainless steel



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出信号	Rated output	4...20mA (三线/three wires) 0...10V (可选/Option)
零点输出	Zero balance	± 1% F.S.
非线性	Non-linearity	±0.5%F.S.
滞后	Hysteresis	±0.2%F.S.
重复性	Repeatability	±0.1%F.S.
蠕变 (30分钟)	Creep(30min)	±0.05%F.S.
灵敏度温度漂移	Temp. effect on output	±0.05%F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.05%F.S. / 10°C
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	24VDC
最大激励电压	Maximum excitation	32VDC
负载阻抗	Burden impedance	(UB-10V)/0.02A
温度补偿范围	Compensated temp. range	-10...40°C
工作温度范围	Operation temp. range	-20...80°C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
防护等级	Protection class	IP67
负载	Burden	for current output 电流输出 < (UB-10 V)/0.024 A for voltage output 电压输出 > 10 kΩ
连接器	Connector	M12*1-4P

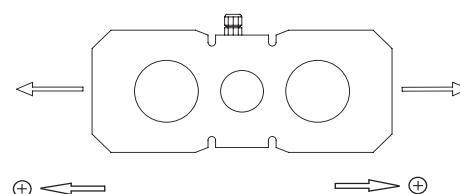


特点和用途 / Features&Applications

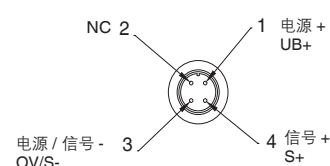
- 不锈钢材料
- 精度高，容易安装
- 替代原来的拉链，经济实惠
- 形状尺寸可定制，IP67
- 应用于起重机、吊钩秤、各类吊机
- Made of stainless steel
- High accuracy, easy to install
- Affordable replacement of original tension links to gain overload protection
- Customized size and shape possible, IP67 protection
- Used for various kinds of crane and hook scales



受力方式 / Load Direction



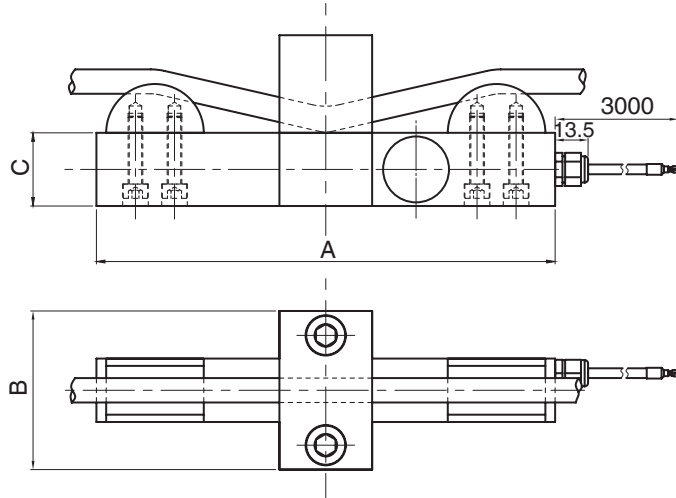
接线图 / Schematic Wiring Diagram



F9204



尺寸及量程 / Size and Capacity



钢丝绳张力 Steel cable tension (t)	钢丝绳直径 Steel cable diameter	A	B	C	材料/Material	重量/Weight
1	Ø6~14	164	60	28	合金钢/ Alloy steel	1.5kg
2	Ø10~18	164	60	28		1.8kg
3.5	Ø10~18	188	65	30		2.2kg
5	Ø16~24	182	68	34		2.4kg
10	Ø24~36	200	80	40		3.7kg
20	Ø24~36	240	90	45		5.9kg
30~40	Ø34~48	310	130	52		11.2kg



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出信号	Rated output	4...20mA/0...10V
供电电压	Power	12...36VDC
组合误差	Combined error in the application	±3% F.S.
零点输出	Zero balance	±2% F.S.
非线性	Non-linearity	±0.5% F.S.
滞后	Hysteresis	±0.5% F.S.
重复性	Repeatability	±0.5% F.S.
蠕变 (30分钟)	Creep (30min)	±0.05% F.S.
灵敏度温度漂移	Temp. effect on output	±0.25% F.S. / 10°C
零点温度漂移	Temp. effect on zero	±0.25% F.S. / 10°C
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	24V
负载阻抗	Burden impedance	(U _B -10V)/0.02A
温度补偿范围	Compensated temp. range	-10...40°C
工作温度范围	Operation temp. range	-20...80°C
安全超载	Safe overload	150% F.S.
极限超载	Ultimate overload	200% F.S.
电缆线尺寸	Cable size	Ø4×3000 mm
防护等级	Protection class	IP66
负载	Burden	for current output 电流输出 < (U _B -10 V)/0.024 A for voltage output 电压输出 > 10 kΩ
连接方式	Cable color code	4-20mA(2-wire) Input / Output 红 Red(E+ / S+) 黑 Black(E- / S-)



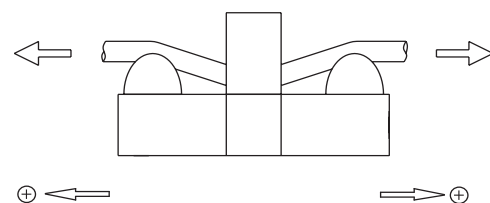
特点和用途 / Features&Applications

- 钢丝绳张力传感器
- 合金钢材料
- 安装方便，操作简单
- 防护等级 IP66
- 主要用于钢丝绳张力测量

- Rope tension sensor
- Made of alloy steel
- Easy to install and operate
- IP66 protection
- Used for rope tension measurement



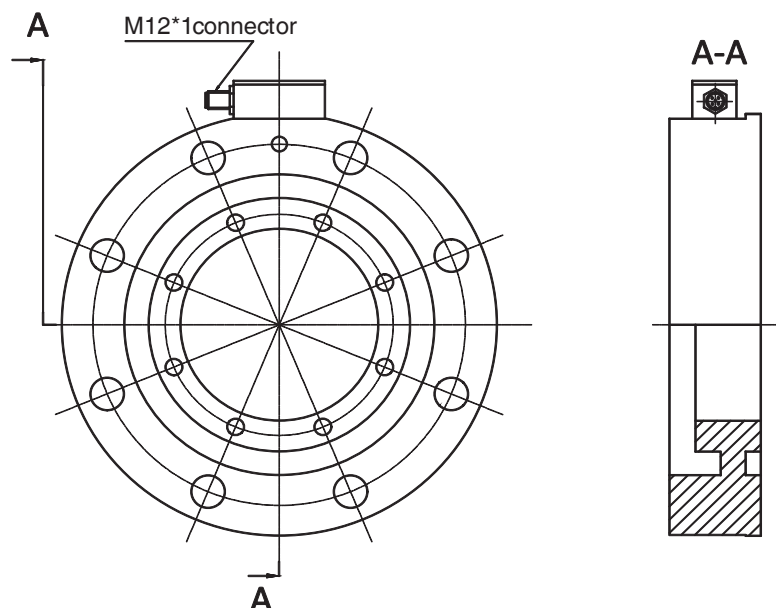
受力方式 / Load Direction



F9841



尺寸及量程 / Size and Capacity



注：可根据客户需求定制产品
Not e:Dimensions acc. customer requirement

量程 / Capacity (kN)	材料 / Material
60~1200	合金钢 / Alloy steel



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	0...10V / 4...20mA
零点输出	Zero balance	±2% F.S.
灵敏度温度漂移	Temp. effect on output	±0.05%F.S. / 10℃
零点温度漂移	Temp. effect on zero	±0.05%F.S. / 10℃
绝缘电阻	Insulation	≥5000MΩ
激励电压	Recommended excitation	18...30VDC
最大激励电压	Maximum excitation	32VDC
温度补偿范围	Compensated temp. range	-10...40℃
工作温度范围	Operation temp. range	-20...80℃
安全超载	Safe overload	150%F.S.
极限超载	Ultimate overload	200%F.S.
防护等级	Protection class	IP65
连接方式	Cable color code	M12*1-5P

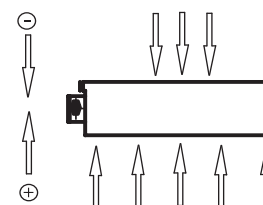


特点和用途 / Features&Applications

- 环形测力传感器
- 合金钢材料
- 量程大，高度低
- 形状尺寸定制
- 可内置放大器
- 用于电动式注塑机
- Ring type sensor
- Made of alloy steel
- Wide range, low profile
- Customized shape and size
- Internal amplifier optional
- Mainly used for injection machine industry

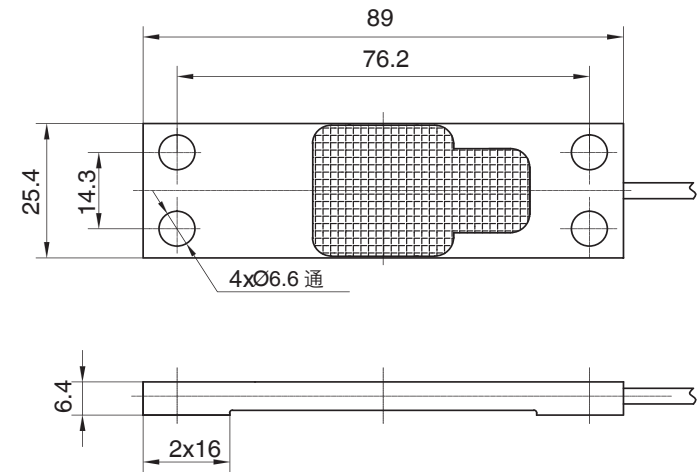


受力方式 / Load Direction



F9846

 尺寸 / Size



量程 / Capacity (μ ε)	材料 / Material	重量 / Weight
200/500/1000	不锈钢 / Stainless steel	0.5kg

 技术参数 / Technical Parameters

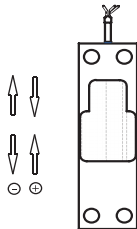
参数	Specifications	技术指标/Technique
输出灵敏度	Rated output	1.0 ± 0.15 mV/V
零点输出	Zero balance	± 2% F.S.
综合误差	Total error	1% F.S.
灵敏度温度漂移	Temp. effect on output	± 0.5% F.S. / 10°C
零点温度漂移	Temp. effect on zero	± 0.5% F.S. / 10°C
输入电阻	Input impedance	1000 ± 10Ω
输出电阻	Output impedance	1005 ± 3Ω
激励电压	Recommended excitation	5...10V
最大激励电压	Maximum excitation	15V
温度补偿范围	Compensated temp. range	-10 ... 40°C
工作温度范围	Operation temp. range	-20 ... 80°C
安全超载	Safe overload	120% F.S.
极限超载	Ultimate overload	150% F.S.
电缆线尺寸	Cable size	Ø3 × 6000 mm
防护等级	Protection class	IP65
连接方式	Cable color code	Input: Red(+) Black(-); Output: Green(+) White(-); 输入: 红 (+) 黑 (-); 输出: 绿 (+) 白 (-);



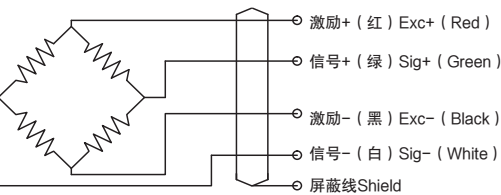
 特点和用途 / Features&Applications

- 应变式传感器
- 不锈钢材料
- 安装替换方便
- 适用于超大型设备的测力
- 适用于不合适安装其他测力传感器的场所, 用于直接测量应变
- Strain transducer
- Made of stainless steel
- Easy to install and replace
- Suitable for large capacity equipment
- Suitable for equipment where it is inconvenient to install other force transducer
- Used to measure directly the strain of the equipment

 受力方式 / Load Direction



 接线图 / Schematic Wiring Diagram

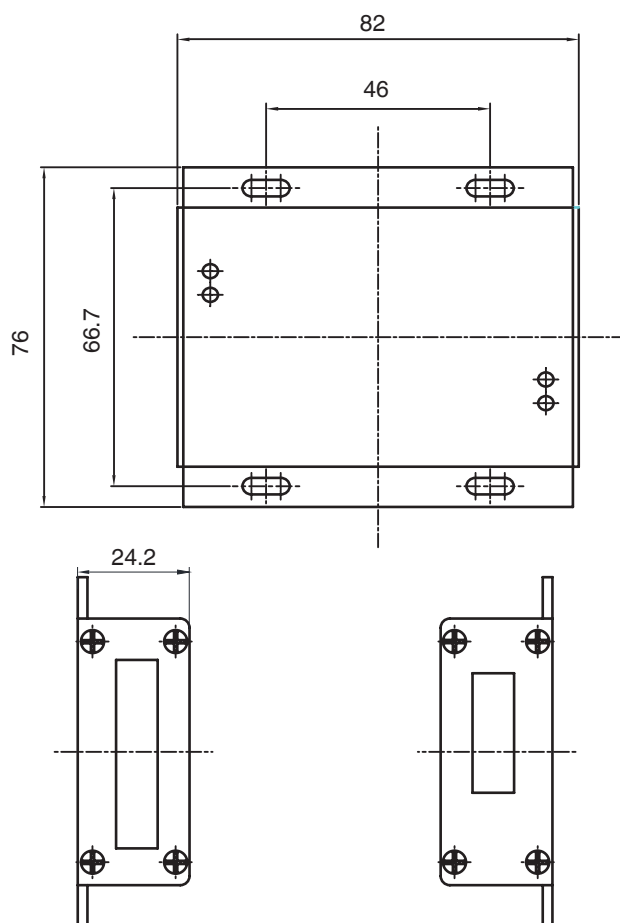


注: 屏蔽线不与弹性体相连。
Note: Cable shield is not connected to the element.

放大器 / Amplifier

B1936

尺寸 / Size



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	18...30VDC
最大功率	Maximum Power	3W
电流输出	Current output	0...20mA/4...20mA (可调)
电压输出	Voltage output	0...5V/0...10V/0...±5V/0...±10V
激励电压	Recommended excitation	5VDC
信号输入范围	Signal Input	0.8...6mV/V
输入输出通道	Channel qty	2路输入1路输出 (Two inputs and one output)
标定方式	Electronic identification	电位器调节 (Potentiometer regulation)
采集频率	Acquisition frequency	100Hz/5,000Hz
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	±0.01%F.S.
工作温度	Operation temp range	-10...60°C
存储温度	Deposited temperature	-30...80°C
外壳材料	Material	Aluminum alloy (铝合金)
防护等级	IP Class	IP53
重量	Weight	0.1kg



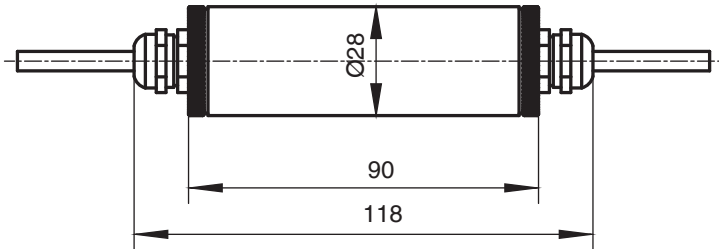
特点和用途 / Features&Applications

- 面板安装
- 输入范围宽, 0.4...6mV/V
- 提供最多两路信号输入, 每路可连接一只含 350Ω 的传感器
- 采用原装进口电子元器件, 响应频率高, 长期稳定性好, 综合精度达到 0.01% F.S.
- 输入电源反接保护和输出短路保护
- Compact design
- Wide input range, 0.8...6mV/V
- Provides up to two signal inputs, each of which can be connected to a sensor containing 4x350Ω resistance
- Using imported electronic components, with high frequency response and longterm stability, max. accuracy 0.01%F.S.
- Input power reverse protection and output short-circuit protection

B1940

放大器 / Amplifier

尺寸 / Size



注：
单独采购不带电缆线
No cable assembly if separate purchase

技术参数 / Technical Parameters

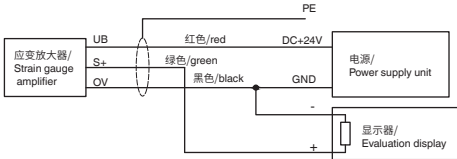
参数	Specifications	技术指标/Technique
工作电压	Power supply	18...30V DC
最大功率	Maximum Power	2W
电流输出	Current output	0...20mA/4...20mA
电压输出	Voltage output	0...5V/0...10V
激励电压	Recommended excitation voltage	5VDC
信号输入范围	Signal Input	0.35...3mV/V
输入输出通道	Channel qty	1路输入1路输出 (One input and one output)
标定方式	Electronic identification	电位器调节 (Potentiometer regulation)
采集频率	Acquisition frequency	≤2,000HZ
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	0.01%F.S.
工作温度	Operation temp range	0...60°C
存储温度	Deposited temperature	-30...80°C
外壳材料	Material	Aluminum alloy (铝合金)
防护等级	IP Class	IP65
重量	Weight	0.1kg



特点和用途 / Features&Applications

- 铝合金外壳
- 三线制电流或电压输出 ,IP65
- 使毫伏信号转换成电压或电流信号
- 主要用于 0.35-3.0mV/ V额定输出的应变计式称重传感器
- 负载能力强,可连接4只350Ω传感器
- Inline analog amplifier with aluminum alloy housing
- 3 wire technology, IP65
- Transform mV-signal to 4...20mA-signal or 0...10V-signal output
- Mainly used for 0.35-3.0mV/ Vrated output load cell
- 4x 350Ω sensors can be connected

放大器输出, 悬空引线, 未组装
Amplifier output, flying lead, unassembled

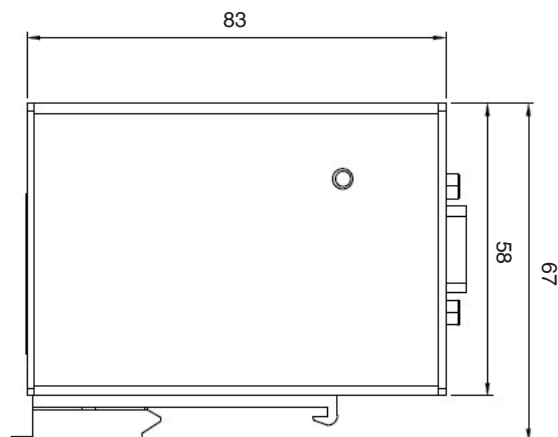


放大器 / Amplifier

B1964

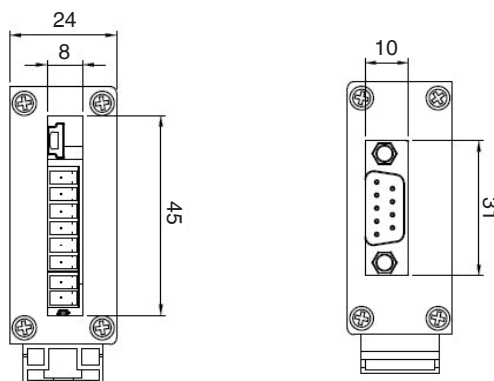


尺寸 / Size



特点和用途 / Features&Applications

- 紧凑型放大器
- 输入范围：0.4...6mV/V
- 负载能力强，可连接4只350Ω传感器
- 采用原装进口电子元器件，响应频率高，长期稳定性好，数字精度0.001%F.S，模拟精度±0.1%F.S，
- 输入电源反接保护和输出短路保护
- 输出方式可选0...5V，0...10V，4...20mA或RS485
- 去皮、置零、清皮、毛重、零点跟踪等常规称重功能
- 实现TEDS免标定功能
- Compact design
- Wide input range, 0.4...6mV/V
- Four 350Ω sensors can be connected
- Using imported electronic components , with high frequency response and long -term stability, and high accuracy Digital output ±0.001%F.S, Analogue output ±0.1%F.S
- Input power reverse protection and output short-circuit protection
- Output mode optional 0...5V, 0...10V, 4...20mA or RS485
- Tare, set zero, gross weight, 0 tracking and other general weighing functions
- Use TEDS for auto calibration

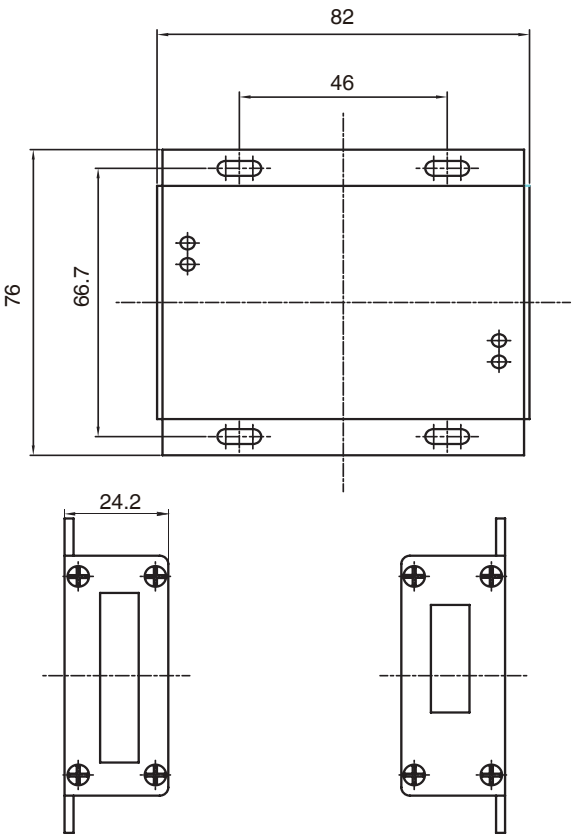


技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	10...30V DC
最大功率	Maximum Power	3W
电流输出	Current output	0...20mA/4...20mA (可调)
通讯输出	Communication output	RS485
通讯协议	Communication protocol	Modbus RTU、FREE、ASCII
电压输出	Voltage output	0...5V/0...10V
激励电压	Recommended excitation	5VDC
信号输入范围	Signal Input	0.4...6mV/V
输入输出通道	Channel qty	1路输入1路输出 (One input and one output)
标定方式	Electronic identification	TEDS免标定，免砝码标定
采集频率	Acquisition frequency	≤1280Hz
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	0.001%F.S.
工作温度	Operation temp range	-10...60 °C
存储温度	Deposited temperature	-30...80 °C
外壳材料	Material	Aluminum alloy (铝合金)
防护等级	IP Class	IP53
重量	Weight	0.1kg

B1968 放大器 / Amplifier

尺寸 / Size



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	10...30V DC
最大功率	Maximum Power	3W
电流输出	Current output	0...20mA/4...20mA (可调)
通讯输出	Communication output	RS232
通讯协议	Communication protocol	Modbus RTU、FREE、ASCII
电压输出	Voltage output	0...5V/0...10V
激励电压	Recommended excitation	5VDC
信号输入范围	Signal Input	0.4...6mV/V
输入输出通道	Channel qty	1路输入1路输出 (One input and one output)
标定方式	Electronic identification	TEDS免标定, 数字砝码标定
采集频率	Acquisition frequency	1280Hz
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	0.001% F.S.
工作温度	Operation temp range	-10...60°C
存储温度	Deposited temperature	-30...80°C
外壳材料	Material	Aluminum alloy (铝合金)
防护等级	IP Class	IP53
重量	Weight	0.1kg



特点和用途 / Features&Applications

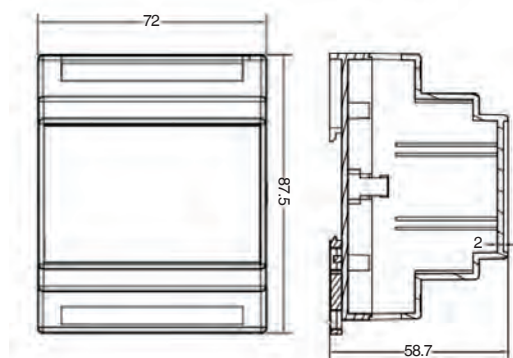
- 紧凑型放大器
- 输入范围：0.4...6mV/V
- 负载能力强，可连接4只350Ω传感器
- 采用原装进口电子元器件，响应频率高，长期稳定性好，数字精度±0.001%F.S，模拟精度±0.1%F.S，
- 输入电源反接保护和输出短路保护
- 输出方式可选0...5V，0...10V，4...20mA or RS232
- 去皮、置零、清皮、毛重、零点跟踪等常规称重功能
- 实现TEDS免标定功能
- Compact design
- Wide input range, 0.4...6mV/V
- Four 350Ω sensors can be connected
- Using imported electronic components , with high frequency response and long -term stability, and high accuracy DI±0.001%F.S, AI±0.1%F.S
- Input power reverse protection and output short-circuit protection
- Output mode optional 0...5V, 0...10V , 4...20mA or RS232
- Tare, set zero, gross weight, 0 tracking and other general weighing functions
- Use TEDS for auto calibration

放大器 / Amplifier

B6542



尺寸及量程 / Size and Capacity



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	18...30VDC
输出端口	Interface	4...20mA, 0...10V, RS232 and RS485
通讯协议	Protocol	Modbus RTU/FREE
开关量	I/O output	3个晶体管输出, 24V/1A带载能力, 2路输入 (3-point transistor output, 24V/1A capacity, 2 input)
激励电压	Recommended excitation	5V DC, 100mA
输入信号范围	Signal Input	0.4...6mV/V
输入输出通道	Channel Qty.	1路输入1路输出 (One input and one output)
驱动能力	Number of load cell	最多6个350欧姆传感器并联 (Up to 6 load cell 350Ω)
采集频率	Acquisition frequency	Up to 4,800 Hz
显示精度	Display accuracy	1/10,000
工作温度	Operation temp range	-30...60°C
防护等级	Ingress Protection	IP54
重量	Weight	0.2kg

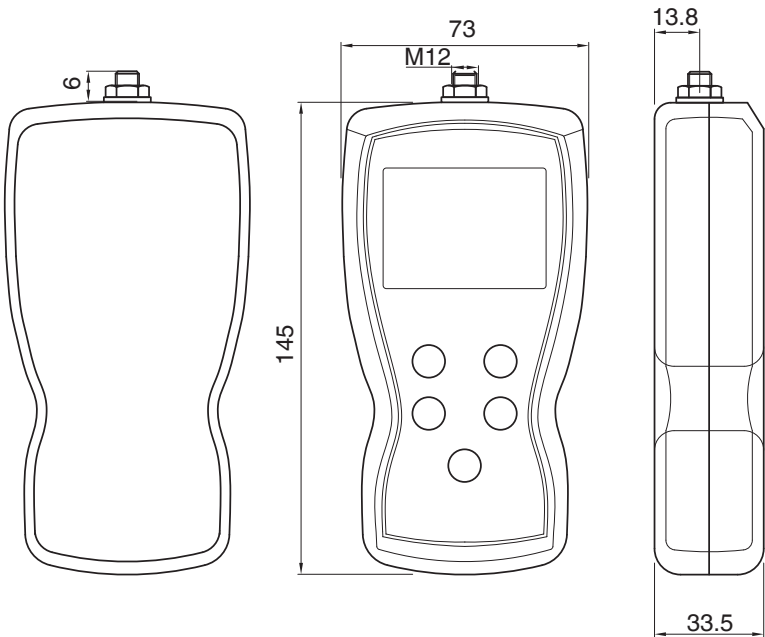


特点和用途 / Features&Applications

- 多种信号输出, 提供4...20mA, 0...10V, RS232和RS485信号输出
- 数据高速采集, 高速传输。采集频率最高可达4,800Hz
- DIN导轨安装方式, 结构紧凑, 安装便捷
- 提供多级数字滤波
- Multiple signal outputs, providing 4...20mA and RS485, RS232 signal outputs
- High-speed data acquisition and transmission, acquisition frequency up to 4,800Hz
- Easy for installation
- Provide a variety of digital filter

B6480 手持式推拉力计 / Handheld force instrument

尺寸 / Size



技术参数 / Technical Parameters

参数	Specifications	技术指标/Ni-Mh 可充电/Technique
工作电压	Power supply	3.6VDC
最大功率	Maximum Power	2W
显示位数	Digits	5
激励电压	Recommended excitation	3.0VDC
1路称重信号输入	Signal Input	0...2.5mV/V
标定方式	Electronic identification	数字加载 (Digital loading)
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	0.3%F.S.
通讯接口	Communication interface	RS232
采集频率	Acquistion frequency	≤2000Hz
储存	Data stonrage	1000组/ 1000 sets of data
电池容量	Battery Supply	20小时 / 20 hours
充电器	Charger	USB/BM 110...240VAC
工作温度	Operation temp range	-10...40°C
存储温度	Deposited temperature	-20...50°C
相对温度	Relative humidity	≤85%RH
外壳材料	Material	Aluminum alloy (铸铁)
防护等级	IP Class	IP67
重量	Weight	0.5kg

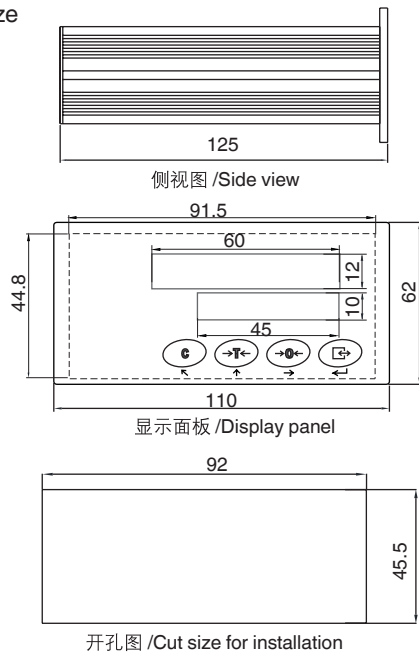


特点和用途 / Features&Applications

- 手持式推拉力计
- 防护等级：IP67
- 高精度：± 0.3% F.S.
- 省电模式，自动关闭
- 传感器自动识别
- 各种力值单位可设置（ N, kgf, lbf, ozf, gf ）
- 多种报警信号输出功能
- 可存储 1000 组数据
- 可用于远程传感器的检测
- Handheld force instrument
- IP67 protection
- High accuracy:± 0.3% F.S.
- Energy saving, automatic switch off display
- Automatic load cell identification
- Various units can be set (N, kgf, lbf, ozf, gf)
- Multiple alarm signal output
- Max storage of 1000 values
- Can be used to check remote sensors



尺寸 / Size



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	24VDC
最大功率	Maximum Power	≤6W
显示位数	Digits	6
激励电压	Recommended excitation	5VDC
1路称重信号输入	Signal Input	0...2mV/V
标定方式	Electronic identification	数字加载 (Digital loading)
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	0.1%
开关量输入	Digital input	2DI
开关量输出	Digital output	4DO
采集频率	Acquistion frequency	≤960Hz
模拟量输出	Analog output	4...20mA;0...20mA;0...5V;0...10V
模拟量输出精度	Analog output accuarcy	16bit
模拟量调节方式	Analog adjust mode	Digital adjust
通讯接口	Communication interface	RS232/485
通讯协议	Communication protocol	Modbus RTU、FREE
工作温度	Operation temp range	-10...40 °C
存储温度	Deposited temperature	-40...60 °C
相对湿度	Relative humidity	≤85%RH
外壳材料	Material	Aluminum alloy (铝合金)
防护等级	IP Class	IP54
重量	Weight	0.44kg



特点和用途 / Features&Applications

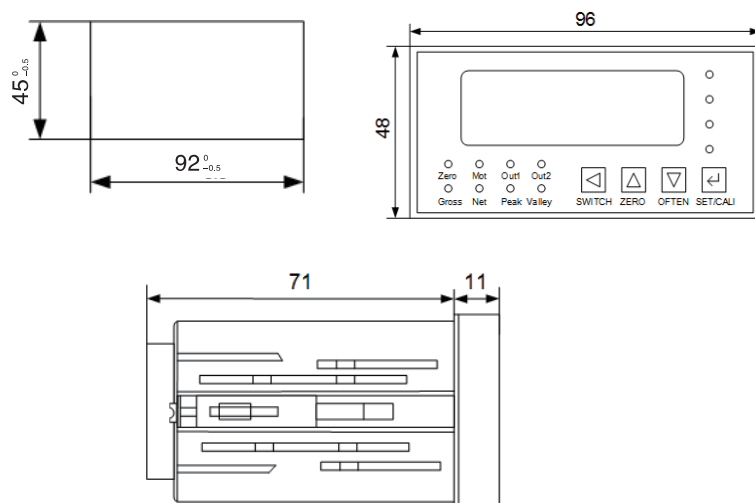
- 数字显示仪表，防护等级：IP65
- 中英文菜单，高精度
- 2DI 输入和 4DO 晶体管输出
- 峰谷值保持功能
- 支持 999,999 显示分度
- 16 位 A/D 转换
- 1200~57600 波特率自适应特性
- 轻触式按键自动清零
- 同时满足模拟信号和数字信号输出

- Numeric display
- IP65 protection
- Chinese/English menu display, high resolution
- 2DI digital input and 4DO digital output
- Min. or max. value display .
- Support max. 999,999 divisions
- 16 bit A/D channel
- 1200-57600 baud rate adaptive communicate
- Easy reset function
- Provide RS232 and RS485 interface



B6530

仪表 / Instrumentation

 尺寸 / Size

 特点和用途 / Features&Applications

- 五位LED显示
- 上下限报警输出，可选晶体管或继电器
- 1路晶体管输入，具备去皮、置零远程操作功能
- 具有峰值、峰谷保持功能
- 具备RS232或RS485,或模拟量输出 0-10V/4-20mA输出
- 支持TEDS面标定功能
- 5 digits, LED red
- Upper and lower limit alarm output, optional transistor or relay
- 1 channel transistor input, with the function of peeling, zeroing, remote operation
- Has the ability to maintain peak, peak-to-valley
- Standard RS232/RS485 interface and optional analog output, output 0-10V/4-20mA
- With TEDS calibration function

 技术参数 / Technical Parameters

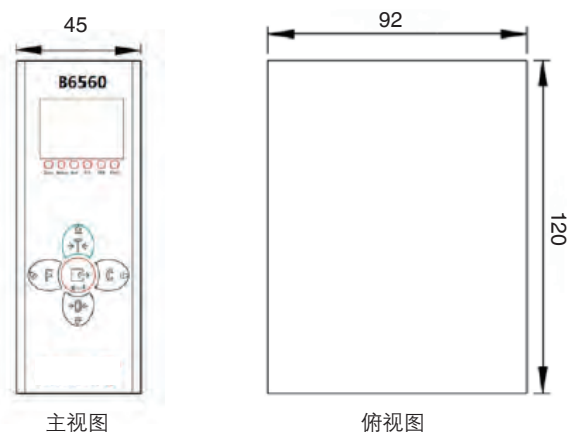
参数	Specifications	技术指标 / Technique
工作电压	Power supply	12 ... 30VDC
最大功率	Maximum Power	3W
显示位数	Digits	5
激励电压	Recommended excitation	5VDC
1路称重信号输入	Signal Input	0.4...6mV/V
标定方式	Electronic identification	数字加载 (Digital loading) TEDS免标定
零位漂移	Zero drift	±0.1uV/°C
增益漂移	Gain drift	±5ppm/°C
综合精度	Accuracy	0.01%F.S
开关量输出	Digital output	2DO
采集频率	Acquisition frequency	≤640HZ
模拟量输出	Analog output	4...20mA;0...20mA;0...5V;0...10V 可选(Optional)
模拟量输出精度	Analog output accuracy	16bit
模拟量调节方式	Analog adjust mode	Digital adjust
通讯接口	Communication interface	RS232/485
通讯协议	Communication protocol	Modbus RTU、FREE、ASCII
工作温度	Operation temp range	-10...60 °C
存储温度	Deposited temperature	-30...80 °C
相对湿度	Relative humidity	≤85%RH
外壳材料	Material	Plastic(塑料)
防护等级	IP Class	IP54
重量	Weight	0.15kg

放大器 / Amplifier

B6560

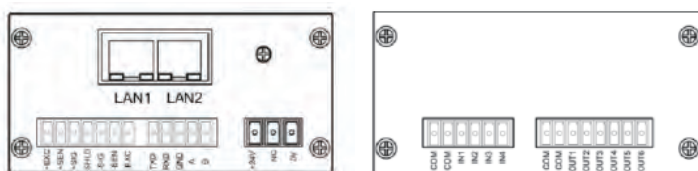


尺寸及量程 / Size and Capacity



主视图

俯视图



俯视图

侧视图



特点和用途 / Features&Applications

- 提供双以太网接口，1路RS232与1路RS485输出。支持Profinet, Ethernet/IP, Modbus-RTU和Modbus-TCP协议等
- 1路传感器接口，最多支持4个350欧姆传感器
- DIN导轨安装方式，安装便捷
- 6位LED显示，显示分度值100,000
- 多级动态数字滤波，满足高速动态称重需求
- 抗电磁干扰，抗外界震动

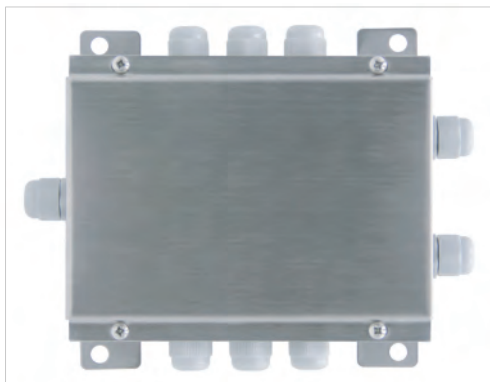
- Support dual Ethernet port, 1 RS232 and 1 RS485 output. Provide Profinet, Ethernet/IP, Modbus-RTU and Modbus-TCP protocol
- Support 1 load cell input, up to 4x350 Ohm load cells
- Standard DIN rail mounting, easy to mount
- 6 digit LED display, up to 100,000 display division
- Multistage dynamic digital filter, meet the demand of high speed dynamic weighing
- Resistance to electromagnetic interference, Shock resistant



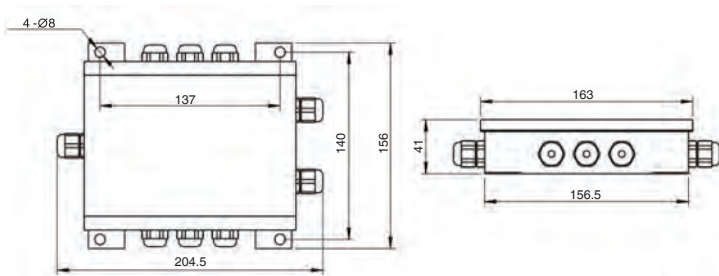
技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	12...36V DC
最大功率	Maximum power	3W
通讯接口	Communication port	RS232/485, Dual Ethernet port
通讯协议	Communication protocol	Profinet, Ethernet/IP, Modbus-RTU and Modbus-TCP
激励电压	Recommended excitation	5V DC
输入信号范围	Signal Input	-10mV...30mV
输入输出通道	Channel Qty.	1路输入1路输出 (One input and one output)
采集频率	Acquisition frequency	Max. 400Hz
精度等级	Accuracy level	III
非线性度	Non-linearity	±0.002% F.S.
工作温度	Operation temp. range	-10...40°C
存储温度	Deposited temp. range	-40...60°C
外壳材质	Housing material	304不锈钢 (304 S.S.)
防护等级	Ingress Protection	IP54
重量	Weight	0.4kg

接线盒 / Junction box B6577 / B6578



尺寸 / Size



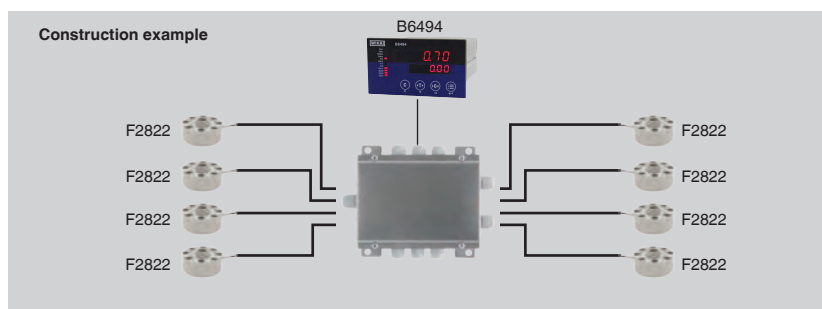
技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作温度	Operation temp range	-20...80°C
防护等级	IP Class	IP67
重量	Weight	0.8kg

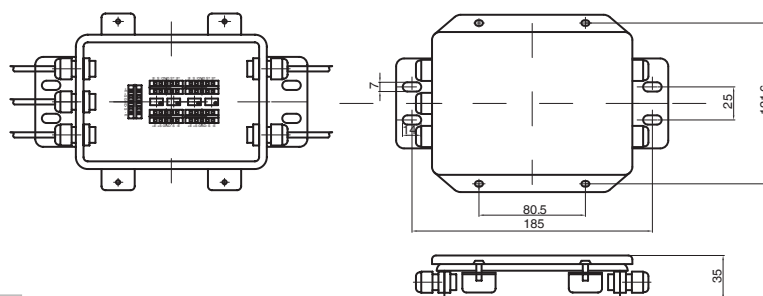


特点和用途 / Features&Applications

- 八进一出接线盒，最多可连接八只传感器
- 壳体采用不锈钢材质，耐腐蚀性强
- 可调节传感器灵敏度
- 防护等级IP67，适用于户外环境
- 8 in 1 out junction box, up to eight sensors can be connected
- Stainless steel housing with high corrosion resistance
- Adjustable sensor sensitivity
- IP67, suitable for outdoor environment



尺寸 / Size



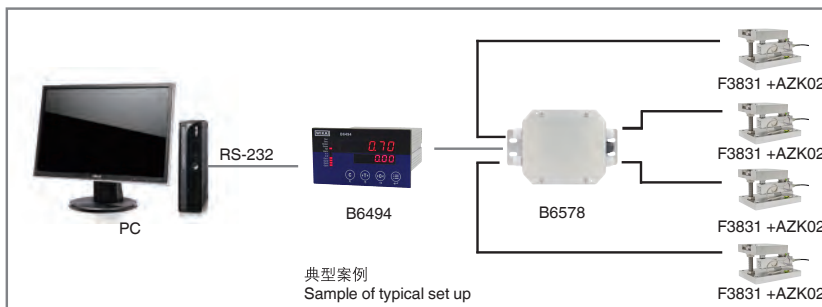
技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作温度范围	Operation temp range	-20...80°C
防护等级	Protection class	IP67
重量	Weight	0.7kg



特点和用途 / Features&Applications

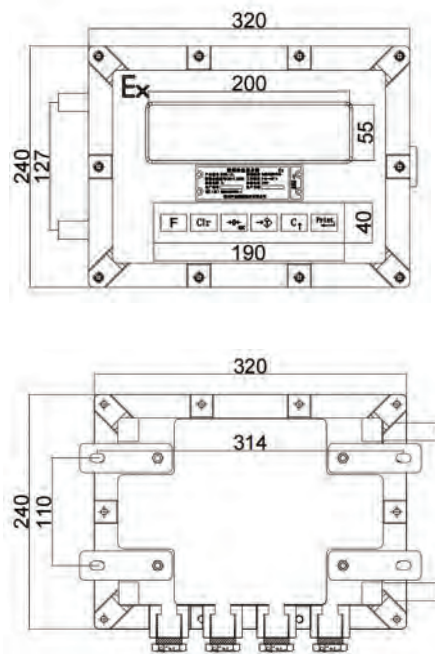
- 4 进一出接线盒
- 不锈钢材料
- 调节传感器灵敏度的信号集成
- 防护等级 IP67
- 4 channel junction box
- Made of stainless steel
- Can be used for adjusting sensor sensitivity
- IP67 protection



BE001



尺寸及量程 / Size and Capacity



技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
工作电压	Power supply	180...240V AC (可选 /Option : 24V DC)
最大功耗	Maximum power	10W
显示位数	Display	7位LED显示
1路输入信号输入	Signal input range	-20 ... 20mV
激励电压	Recommended excitation	5VDC
最高采样频率	Acquisition frequency	200HZ
零位漂移	Zero drift	<0.02uV/°C
增益漂移	Span drift	±3PPM/°C
非线性度	Linearity	0.003%F.S.
开关量输入	Digital input	2DI
开关量输出	Output signal	3DO
模拟量输出	Output signal	0...10V, 4...20mA (可选 /Option : Profibus DP)
模拟量精度	A/D accuracy	16bit
通讯接口	Communication port	RS232, RS485
存储温度	Storage temperature	-30°C ... +60°C
工作温度	Working temperature	-10°C ... +40°C
相对湿度	Humidity	≤90%RH
防护等级	Ingress protection	IP65
重量	Weight	13kg

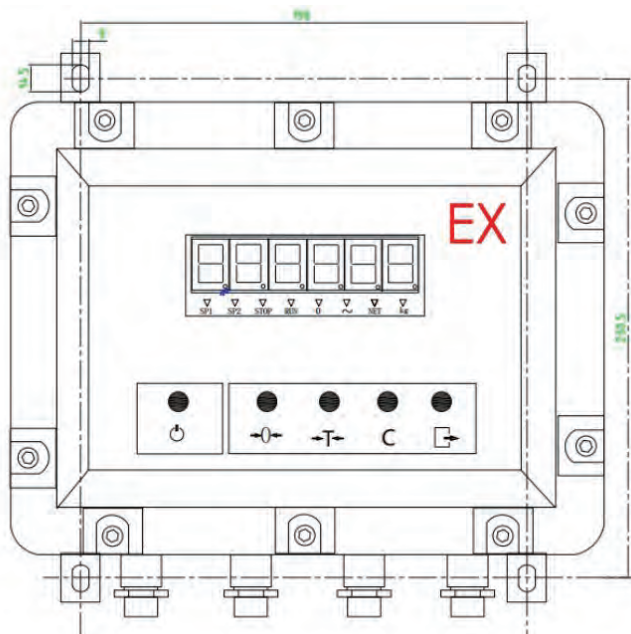


特点和用途 / Features&Applications

- 防爆等级：Exd [ib IIC] IIB T6
 - 结构紧凑，安装灵活
 - 新一代嵌入式高速工业处理器，抗干扰强
 - 优化的数字滤波和快速跟随技术
 - 16 位高精度DA输出，4~20mA / 0~10V 可设置
 - 上下限报警
 - 预置点比较功能
 - 检重控制
 - 自动零跟踪可选
 - 上电置零可选
 - 隔离的RS232/RS485 串行接口
 - 标准MODBUS RTU 协议
 - 220VAC 供电 (DC24V 可选)
-
- Explosion proof: Exd [ib IIC] IIB T6
 - Compact Panel Mount structure, save installation space
 - New generation of embedded high speed processor, strong on anti-interference
 - Optimized digital filter and quick following technology
 - 4 ~ 20mA / 0 ~ 10V analog out available
 - Over/under limit alarming
 - Embedded material transfer control
 - Embedded Setpoint comparison function
 - Check-weigh control
 - Auto zero tracking available
 - Power-up zero available
 - Isolated RS232 / RS485 serial interface
 - Standard MODBUS RTU protocol
 - 220VAC power supply (24VDC available)



尺寸及量程 / Size and Capacity



特点和用途 / Features&Applications

- 防爆等级：Exd [ib IIC] IIB T6，带隔爆仪表箱和内置安全栅
- 提供以太网接口，1路RS232与1路RS485输出。提供模拟信号，Profinet，Ethernet/IP，Profibus-DP，Modbus-TCP等PLC选件板
- 大屏显示，带外部设置按键
- 多级动态数字滤波，满足高速动态称重需求
- 支持免砝码或砝码标定功能，支持线性标定功能
- 抗电磁干扰，抗外界振动

- Explosion-proof : Exd [ib IIC] IIB T6. With explosion-proof instrument case and built-in safety barrier
- Support Ethernet port, 1 RS232 ad 1 RS485 output. Provide analogue, Profinet, Ethernet/IP, Profibus-DP, Modbus-TCP and other PLC option boards.
- Large screen display with external setting keys
- Multistage dynamic digital filter, meet the demand of high speed dynamic weighing
- Weight-free or weight calibration function, linear calibration function
- Resistance to electromagnetic interference, shock resistant



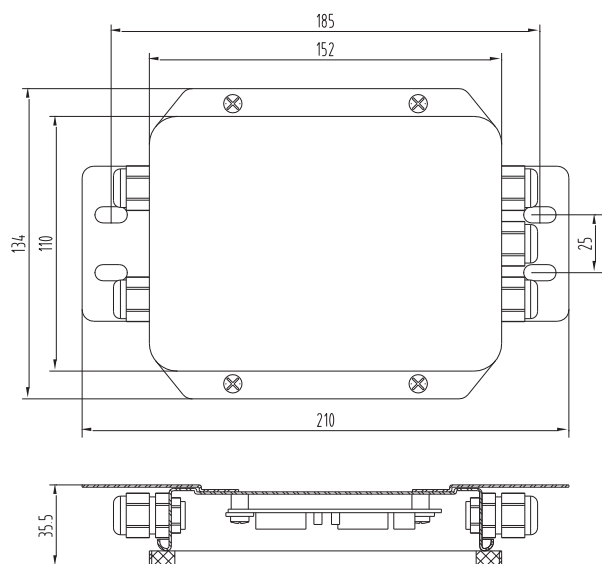
技术参数 / Technical Parameters

参数	Specifications	技术指标/Technique
防爆等级	Explosion	Exd [ib IIC] IIB T6 Gb
工作电压	Power supply	220V AC
通讯接口	Communication port	RS232/RS485, Ethernet port
通讯协议	Communication protocol	4-20mA/0-5V/0-10V, PROFINET, Profibus DP, Ethernet IP, Modbus TCP, Modbus RTU
激励电压	Recommended excitation	5VDC
输入输出通道	Channel Qty.	1路输入1路输出 (One input and one output)
采集频率	Acquisition frequency	Max. 800Hz
显示分度	Division	100,000
工作温度	Operation temp. range	-20...60°C
存储温度	Storage temperature	-40...60°C
外壳材质	Housing material	碳钢 (Carbon steel)
防护等级	Ingress protection	IP65
重量	Weight	15kg

BE567



尺寸及量程 / Size and Capacity



技术参数 / Technical Parameters

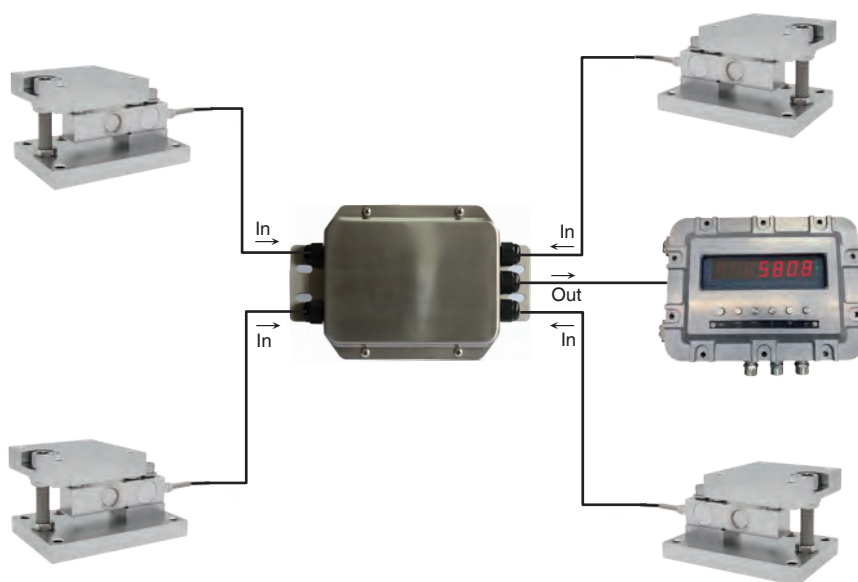
参数	Specifications	技术指标/Technique
工作温度范围	Operation temp rang	-20 ... 80 °C
防护等级	IP Class	IP65
重量	Weight	0.7 kg



特点和用途 / Features&Applications

- 防爆传感器接线盒，符合Ex ia IIC T6 Ga
- 用于2 至4 个传感器的并联组秤
- 304 不锈钢外壳
- 防护等级IP65
- 具有角差调整功能
- Junction box for explosion safety application, in accordance with Ex ia IIC T6 Ga
- Parallel connection of up 4 load cells
- 304 Stainless housing
- Degree of protection IP65
- With a ngle adjustment function, adjust the resistance adjustment angle

应用图例



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Headquarter –WIKA

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Str. 30
63911 Klingenberg
Germany



USA – WIKA

WIKA SENSOR TECHNOLOGY, LP
771-F Dearborn Park Lane
Worthington, OH 43085
USA



China – WIKA

WIKA Instrumentation (Suzhou) Co., Ltd
81, Ta Yuan Road, SND, Suzhou,
P.R.China 215011