GENERAL MEASURE

杰 · 曼 · 科 · 技

称重传感器选型手册

Load Cell Selection Manual

企业简介

ENTERPRISE PROFILE

30+ 年 years
行业经验
Industry Experience

40+ 个
国家销售
Country Sales

200+
研发专利设计
R&D Patent

2000+
应用现场
Application of the scene

杰曼科技成立于1993年，30年来专注于称重仪表、检重秤及定量称重单元等称重核心部件的研发生产及销售。

杰曼科技自主研发的产品凭借着高品质、高速度、高精度等性能，为锂电、粮食、饲料、橡塑、建材、物流等诸多行业的工业称重系统提供了高效、可靠的称重解决方案，赢得了国内外2000多家客户的认可。其多个产品通过CE/CPA/OIML等国际认证，全线产品严格按照国际标准进行研发、生产及认证。

2017年，在湖南株洲设立10000平方米生产制造基地，并成立株洲市杰曼科技有限公司，为了更好的服务客户，2022年在无锡设立分公司，产品远销全球40多个国家和地区。

在众多配套商、代理商及分销商心目中，杰曼称重产品早已是集知名度、品质和价格优势于一身的首选品牌。

Founded in 1993, General Measure has been dedicated to developing, producing, and selling industrial weighing instruments, check weighers, and granule packing fillers for over 30 years.

The products are meticulously developed, manufactured, and certified in accordance with international standards. They have passed various certifications, such as CE/CPA/OIML.

In 2017, General Measure established a state-of-the-art manufacturing base spanning across 10,000m² and set up a subsidiary in Zhuzhou, Hunan province. For better serving clients, GM set a branch in Wuxi in 2022. Currently, General Measure proudly collaborates with 15 exclusive partners worldwide while catering to clients from more than 40 countries and regions. The trust of over 2,000 domestic and international customers serves as an affirmation of General Measure's excellence.

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称重传感器

订货型号信息Model Order Information：

Load cell type model(output signal) · Weighing range · Series · Material · Cable length · Accuracy · Anti-explosion

GML-传感器类型及数字代码(输出特性)-量程-系列号材质-线长 精度 防爆特性

shear beam load cell: X8	悬臂梁为X8
bending beam load cell: B5	波纹管为B5
canister load cell: Z4	柱式为Z4
s type load cell: S3	S型为S3
single point load cell: D6	单点式为D6
single point load cell: X11	箱式为X11
pancake load cell: L7	轮辐式为L7

数字版：D
Digital: D

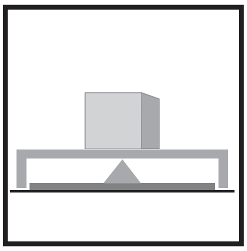
模拟版：不标注
Analog: blank

不锈钢：S
Stainless steel: S

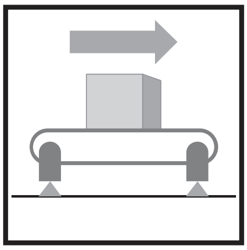
合金钢：C
Alloy steel: C

防爆：Ex
Anti-explosion: Ex

常规：不标注
Normal: blank

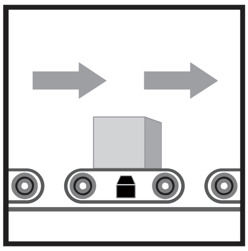


平台秤：采用单/多只传感器
Platform Scale with single/mutiple load cells

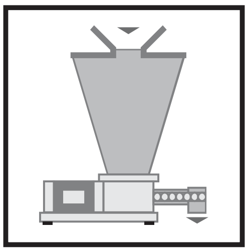


皮带秤
Belt scale

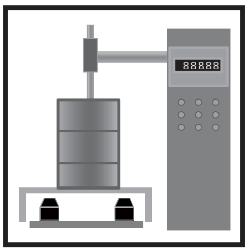
计价秤
Commercial scale



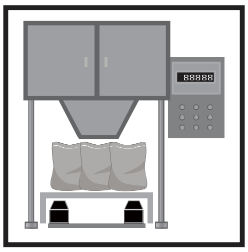
检重秤
Check weigher



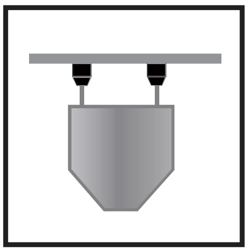
定量失重秤
Loss-in-weight scale



定量灌装秤
Filling scale



定量包装机
Packing scale



吊罐秤
Crane scale

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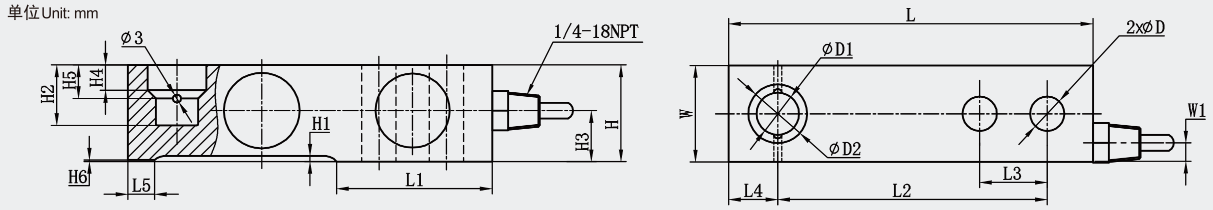
GML-X8 F Series系列

悬臂梁称重传感器
Shear Beam Load Cell

结构紧凑，安装高度低；
焊接密封，防护等级IP68；
防爆等级：Ex ia IIC T4 Ga ; Ex iaD 20 T135;
模拟及数字版本可选。

Compact installation at minimum installation height;
Welded sealing, IP68;
Explosive-proof grade: Ex ia IIC T4 Ga ; Ex iaD 20 T135;
Analog or digital version selection.

单位Unit: mm



Cap(单位)	D	D1	D2	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	W	W1
0.1~1t	13.0	22.2	15.9	30.2	1.8	17.3	16.0	4.8	7.9	0.38	133.4	57.7	101.6	25.4	15.4	6.4	30.7	6.1
2t	13.0	22.2	15.9	36.6	6.0	22.9	19.6	9.5	12.7	/	136.7	57.9	101.6	25.4	18.4	/	36.8	6.1
3t	15	22.2	15.9	36.6	4.0	22.9	19.6	9.5	12.7	/	136.7	57.9	104.6	25.4	18.4	/	39	6.1
5t,7.5t	19.3	34.9	22.2	42.9	4.5	29.3	22.6	10.8	17.8	/	171.5	73.8	133.4	38.1	21.4	/	42.9	6.1

Specifications 技术说明 Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数		
Accuracy class 精度等级		C3		
Maximum capacity (Emax)额定载荷	t	**0.1 / 0.2 / 0.5 / 1 / 2 / 3 / 5 / 7.5**		
Minimum LC verification interval(Vmin)最小检定分度值	% of Emax	0.0200		
Sensitivity(Cn)/Zero balance 灵敏度/零点平衡	mV/V	2.0±0.002/00.02		
Temperature effect on zero balance (TK_0) 温度对零点影响	% of Cn/10K	±0.0170		
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170		
Hysteresis error(dhy)滞后误差	%of Cn	±0.0180		
Non-linearity(dlin)非线性误差	%of Cn	±0.0167		
Creep(dcr) over 30 min.蠕变及蠕变恢复	% of Cn	±0.0167		
Input (RLc) &Output resistance (R_0) 输入&输出电阻	Ω	400±20 & 352±3		
Nominal range ofexcitation voltage (Bu)额定电压	V	5~15		
Insulation resistance(Ris) at 50Vdc 绝缘电阻	MΩ	>5000		
Service temperature range(Btu) 工作温度	℃	-30...+70		
Safe load limit(EL) & Break load(Ed)破坏载荷&安全承载	% of Emax	150 &300		
Protection class according to EN60529 (IEC 529) 保护等级		IP68		
Material : Measuring element 材料:测量元件		Stainless or Avolly steel 合金钢和不锈钢可选		
Cable fitting 电缆配件		Stainless steel or nickel-plated brass		
Cable-sheah 电缆护套		PVC		
Maximum capacity(Emax) 额定载荷	t	0.1 / 0.2 / 0.5 / 1	2 / 3	5 / 7.5
Deflection at Emax(Sno),approx.最大荷下的变形量	mm	<0.5	<0.5	<0.6
Weight(G),approx重量	kg	1.1	1.3	3.2
Cable 电缆: Diameter直径Φ6mm Length 长度	m	4.5	4.5	7

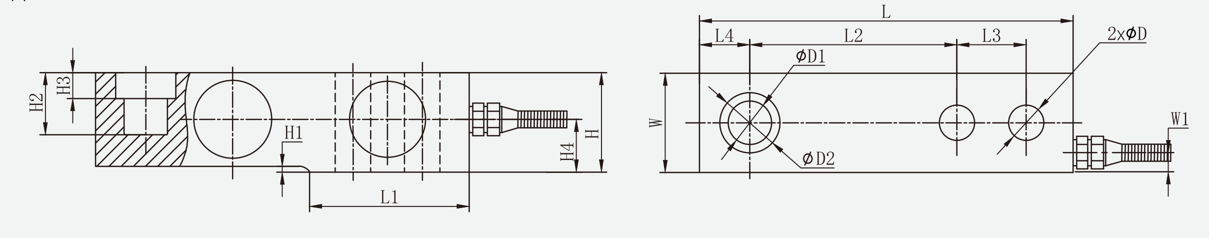
GML-X8 B Series系列

悬臂梁称重传感器
Shear Beam Load Cell

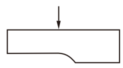
结构紧凑，安装高度低；
有过载保护与支撑杆，采取摆支撑有自复位功能；
模拟及数字版本可选。

Compact installation at minimum installation height;
With overload stop and stay rod,
Self-restoring due to pendulum bearing;
Analog or digital version selection.

单位Unit: mm



Cap(单位)	D	D1	D2	H	H1	H2	H3	H4	L	L1	L2	L3	L4	W	W1
0.5,1,2,3	12.7	15.9	26	36.6	2.1	22.9	4.2	19.1	136.6	57.9	76.2	25.4	18.4	36.8	7
5 ,7.5	19.3	22.2	34.9	42.9	2.4	29.3	11	23	171.5	73.8	95.2	38.1	21.4	42.9	6.5



地上衡、配料秤、料斗秤、平面台秤
Floor scale, blending scale, hopper scale, platform scale

Specifications 技术说明

Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C 3
Maximum capacity (Emax) 额定载荷	t	0.5,1,2,3,5,7.5
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.0200
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	mV/V	2.0±0.002
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC) &Output resistance (R0) 输入&输出电阻	Ω	400±10 & 352 ±3
Nominal range of excitation voltage (Bu) 额定电压	V	5~15
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	＞5000
Service temperature range (Btu)工作温度	℃	-30~70
Safe load limit (EL) & Breaking load(Ed) 安全承载&破坏载荷	% of Emax	150 & 200
Protection class according to EN 60 529 (IEC 529) 保护等级		IP68
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

Maximum capacity (Emax)额定载荷	t	0.5 / 1	2 / 3 / 5	7.5
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	<0.5	<0.5	<0.6
Weight(G),approx 重量	kg	1.1	1.3	3.2
Cable 电缆：Diameter 直径：ø6mm Length 长度	m	3.5	5	7

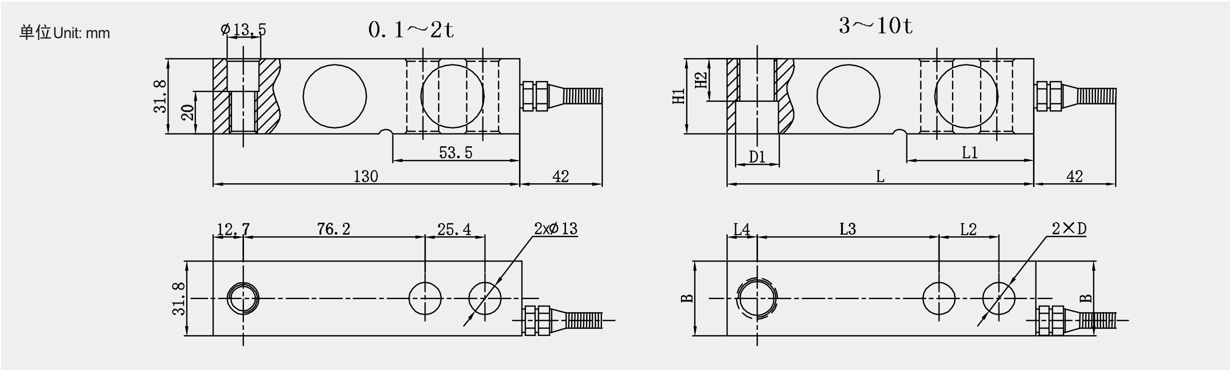
GML-X8 Q Series系列

悬臂梁称重传感器

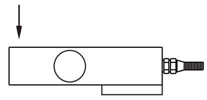
Shear Beam Load Cell

结构紧凑，安装高度低；
有过载保护与支撑杆，采取摆支撑有自复位功能；
模拟及数字版本可选。

Compact installation at minimum installation height;
With overload stop and stay rod,
Self-restoring due to pendulum bearing;
Analog or digital version selection.



Cap(单位)	L	L1	L2	L3	L4	B	H1	H2	D	D1	D2
3～5	171.5	72.5	38.1	95.3	19	38.1	38.1	26	ø20	ø20	M18×1.5
7.5~10	225.5	102	50.8	124	25.3	50.8	50.8	25.4	ø27	ø27	M24×2



地上衡、配料控制系统、平面台秤
Floor scale, blending control system, platform scale

Specifications 技术说明

Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	**t**	**0.1 / 0.3 / 0.5 / 1 / 2 / 3 / 5 / 7.5 / 10**
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.0100
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	**mV/V**	0.1~0.3t : 2.0±0.002 / 0±0.02 1~10t : 3.0±0.003 / 0±0.03
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC)&Output resistance (R0)输入&输出电阻	**Ω**	**400±10 & 352±3**
Nominal range of excitation voltage (Bu) 额定电压	**V**	**5~15**
Insulation resistance(Ris)at 50Vdc 绝缘电阻	MΩ	≥5000
Service temperature range (Btu) 工作温度	℃	-40...+70
Safe load limit (EL)&Breaking load(Ed) 安全承载&破坏载荷	% of Emax	120 & 200
Protection class according to EN 60 529 (IEC 529)保护等级		IP68 / IP67
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

Item项目	Unit 单位	Parameter 参数				
Maximum capacity (Emax) 额定载荷	t	0.1~2.5	3	5	7.5	10
Deflection at Emax (snom) ,approx 最大载荷下的变形量	mm	<0.65	<0.75		<0.85	
Weight(G),approx 重量	kg	1.2	1.7		3.8	
Cable 电缆：Diameter 直径：ø6mm Length长度	m	3	4.2		5	

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GML-X8 S Series系列

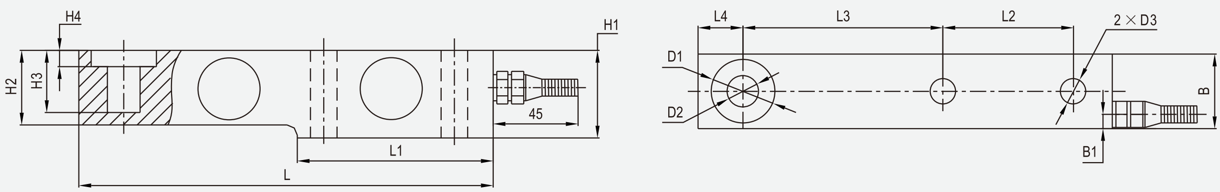
悬臂梁称重传感器

Shear Beam Load Cell

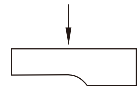
结构紧凑，安装高度低；
有过载保护与支撑杆，采取摆支撑有自复位功能；
模拟及数字版本可选。

Compact installation at minimum installation height;
With overload stop and stay rod,
Self-restoring due to pendulum bearing;
Analog or digital selection.

单位Unit: mm



Cap(单位)	L	L1	L2	L3	L4	H1	H2/B	B1	H3	H4	D1	D2	D3
0.5,1,2,3	203	95	64	98	22	43	36.6	7	30.5	8	ø32	ø16	ø13
5,7.5,8	235	110	66	124	22	52	48	7	30	12	ø38	ø22	ø21
10,15	279	133	82	140	32	67	60	8.5	20	8.5	ø48	ø32	ø28
20,25	318	153	89	159	38	82.5	70	9.5	24	9.5	ø54	ø38	ø34



地上衡、配料秤、料斗秤、
平面台秤

Floor scale, blending scale,
hopper scale, platform scale

Specifications 技术说明

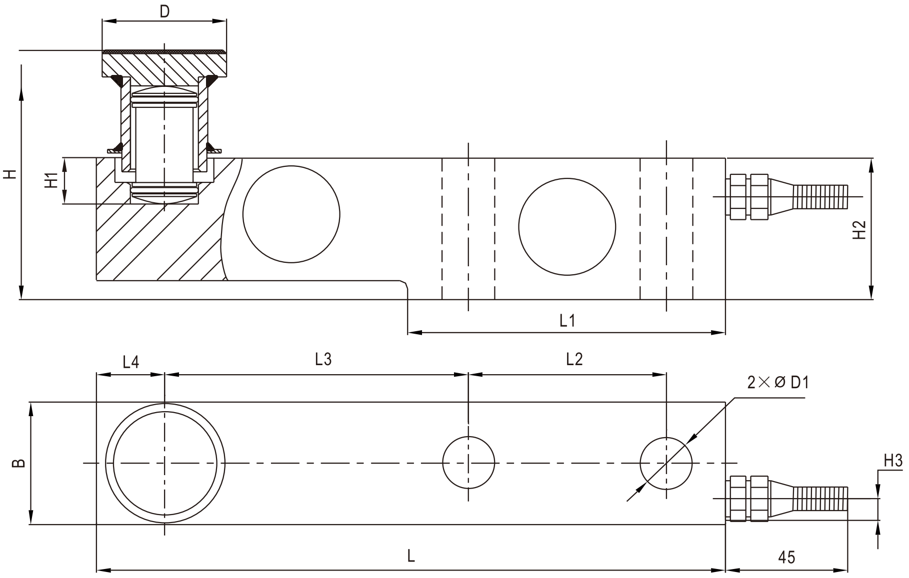
Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax) 额定载荷	**t**	**0.5,1,2,3,5,7.5,8,10,15,20,25**
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.0100
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	**mV/V**	**2.0±0.002 / 0±0.02**
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC) &Output resistance (R0) 输入&输出电阻	**Ω**	**400±10 & 352±3**
Nominal range of excitation voltage (Bu)额定电压	**V**	**5~12**
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	＞5000
Service temperature range (Btu)工作温度	℃	-30~70
Safe load limit (EL) & Breaking load(Ed) 安全承载&破坏载荷	% of Emax	150 & 300(0.5t~5t);120&200(8t~25t)
Protection class according to EN 60 529 (IEC 529)保护等级		**500kg:IP67;1t~25t:IP68**
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

Maximum capacity (Emax)额定载荷	t	0.5,1,2	3	5	7.5/8	10	15	20	25
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	＜1		＜1.2	＜1.5	＜1.2		＜1.5	
Weight(G),approx 重量	kg	2.2		4.2		8.0		11.5	
Cable 电缆：Diameter 直径：ø6mm Length长度	m	2.6	3.5	5.2		7	12	12	

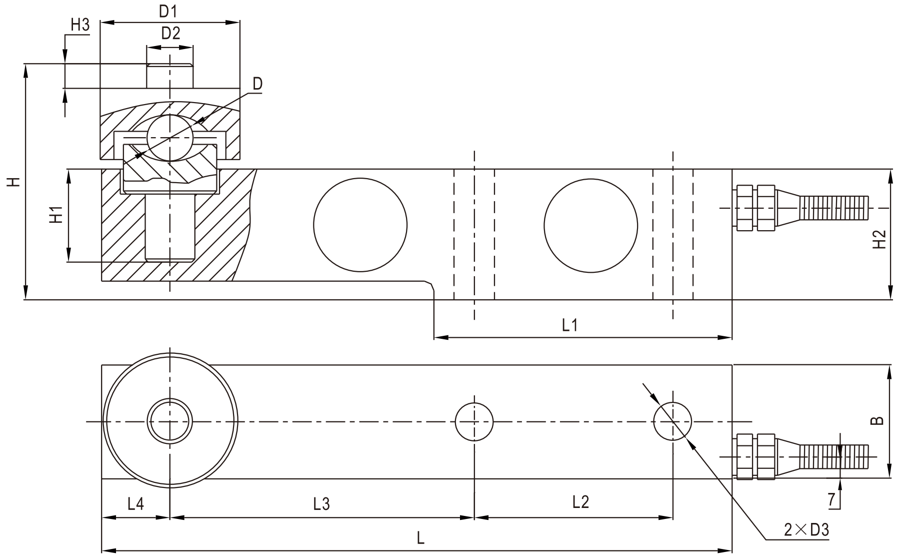
GML-X8 S Series Assembly Drawing系列总装图

总装图 A
Assembly Drawing A



Cap(单位)	L	L1	L2	L3	L4	B	H	H1	H2	H3	D	D1
0.5,1,2,3	203	95	64	98	22	36.6	58	30.5	43	7	ø35	ø13
5,7.5,8	235	110	66	124	22	48	81	30	52	7	ø42	ø21
10,15	279	133	82	140	32	60	128	20	67	8.5	ø57	ø28
20,25	318	153	89	159	38	70	144	24	82.5	9.5	ø70	ø34

总装图 B
Assembly Drawing B



Cap(单位)	L	L1	L2	L3	L4	B	H	H1	H2	H3	D	D1	D2	D3
0.5,1,2,3	203	95	64	98	22	36.6	79	30.5	43	9	ø16	ø45	ø15	ø13
5,7.5,8	235	110	66	124	22	48	104	30	52	10	ø25	ø52	ø21	ø21

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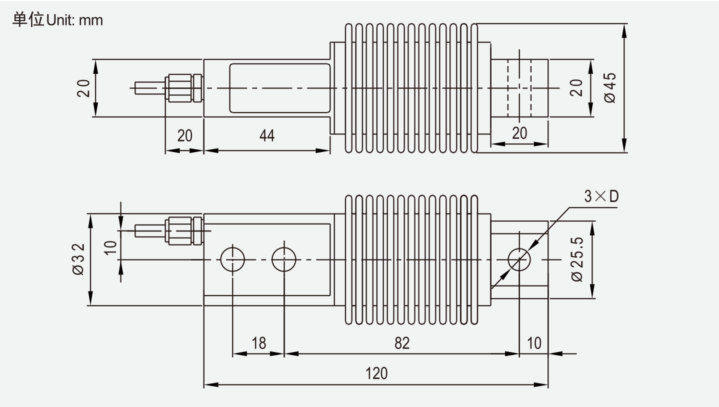
GML-B5 M Series系列

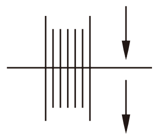
波纹管称重传感器
Bending Beam Load Cell

结构紧凑，安装高度低, 防护等级IP68；
防爆等级：Ex ia IIC T4 Ga ; Ex iaD 20 T135;
模拟及数字版本可选。

Compact installation at minimum installation height, IP68;
Explosive-proof grade: Ex ia IIC T4 Ga ; Ex iaD 20 T135;
Analog or digital version selection.



Cap(单位)	D
10,20,50,75,100,200,250	ø8.2
300,500	ø10.2



料斗秤、皮带秤、配料系统
hopper scale,belt scale,blending system

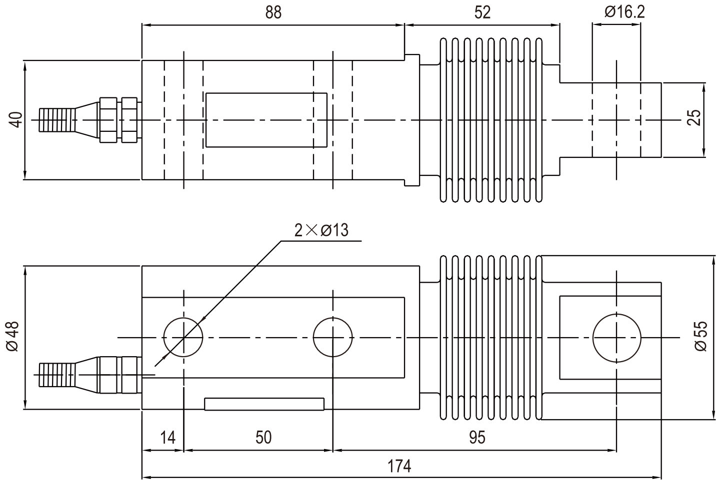
Specifications 技术说明 Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	**kg**	**10,20,50,75,100,200,250,300,500**
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.0100
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	**mV/V**	**2.0 ± 0.002**
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC) & Output resistance (R0) 输入&输出电阻	**Ω**	**400±10 & 352±3**
Nominal range of excitation voltage (Bu)额定电压	**V**	**5~12**
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	≥5000
Service temperature range (Btu) 工作温度	℃	-30~70
Safe load limit (EL) & Breaking load(Ed) 安全承载&破坏载荷	% of Emax	120 & 200
Protection class according to EN 60 529 (IEC 529) 保护等级		**IP68**
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

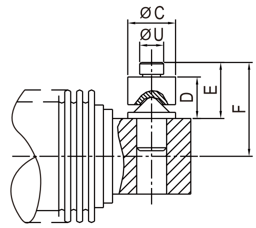
Maximum capacity (Emax)额定载荷	kg	10	20	50	75	100	200	250	300	500
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	0.31							0.39	
Weight(G),approx 重量	kg	0.5								
Cable 电缆：Diameter 直径：ø5mm Length长度	m	3								

GML-B5 M Series Assembly Drawing系列总装图

1000kg

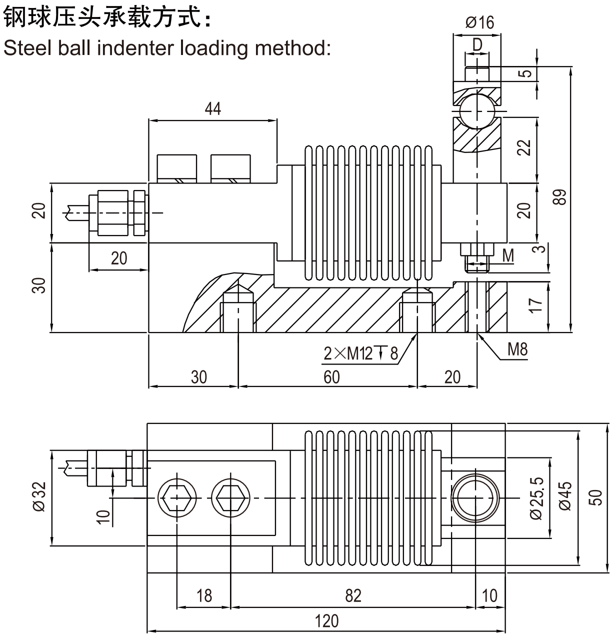


Cone and conical pan for Emax 10kg...1t.
圆锥头，圆锥面承载方式



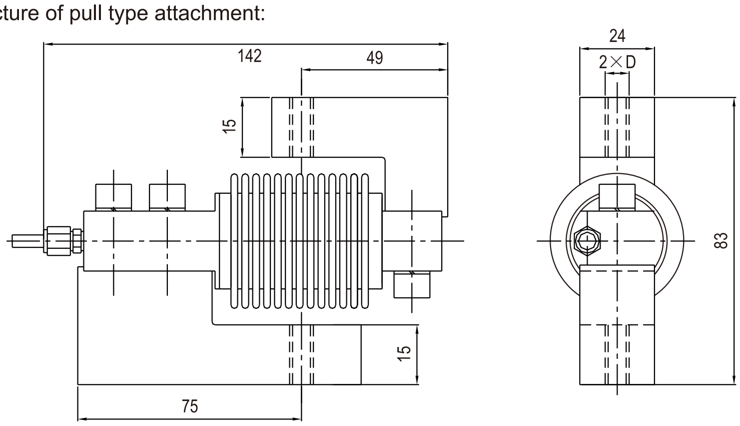
Cap(单位)	C	D	E	U	X
10~200kg	15	16	21	$8.1^{0}_{-0.05}$	26
300,500kg	18	24	32	$11^{0}_{-0.05}$	34
1t	18	24	32	$11^{0}_{-0.05}$	36.5

(10kg~500kg) 钢球压头承载方式：
Steel ball indenter loading method:



Cap(单位)	D	M
10,20,30,50,75 100,200,250	ø8	M8
300,500	ø10	M10

(10kg~500kg) 拉式附件结构图
Structure of pull type attachment:



Cap(单位)	D
10,20,30,50,75 100,200,250	M8
300,500	M10

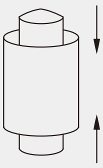
GENERAL MEASURE
杰 • 曼 • 科 • 技

GML-Z4
A Series系列

柱式传感器
Canister Load Cells

激光焊接IP68;
自复位功能;
经过角差预调整适合并联使用(按EN 45501);
模拟及数字版本可选。

Laser welded,IP68;
Self-restoring function;
Optimized for paralled connection by corner pre-adjustment,
Meets EMC/ESD requirements according to EN 45 501;
Analog or digital version selection.



汽车衡、轨道衡、轴量秤、地上衡
Truck scale,railway scale,axle wheel scale,floor scale

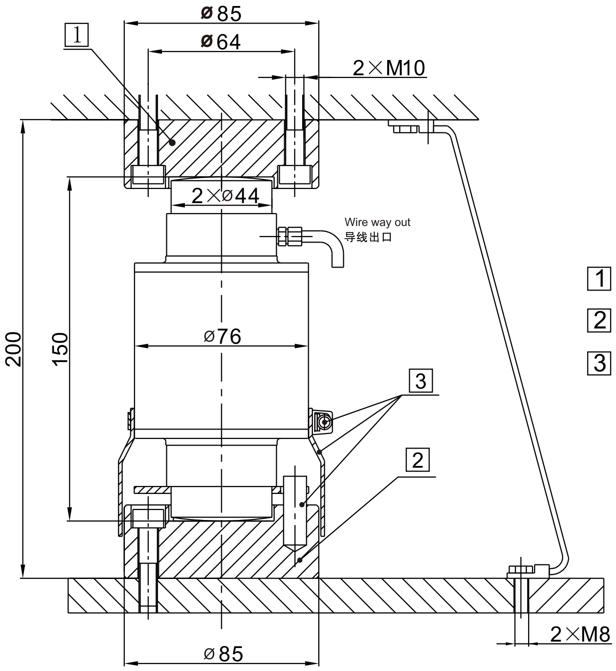
Specifications 技术说明 Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	**t**	**10,15,20,30,40,50**
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.0100
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	**mV/V**	**2.0 ± 0.002**
Temperature effect on zero balance (TKo) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC) & Output resistance (Ro) 输入&输出电阻	**Ω**	**700±20 & 703±3.5**
Nominal range of excitation voltage (Bu) 额定电压	**V**	**5~12**
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	＞5000
Service temperature range (Btu)工作温度	℃	-30～70
Safe load limit (EL) & Breaking load(Ed)安全承载&破坏载荷	% of Emax	150 & 250
Protection class according to EN 60 529 (IEC 529) 保护等级		**IP68**
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

Maximum capacity (Emax)额定载荷	t	10	15	20	30	40	50
Min. scale verification (emin) according to En45501 [...#=max. Number of load cells] 秤的最小检定分度值	kg	5 [6#]	5 [6#]	5 [6#] 10 [8#]	10 [8#]	10 [6#] 20 [8#]	10 [4#] 20 [10#]
Recommended maximum weighing capacity of scale推荐秤的额定载荷	t	20	30	50 80	100	120 150	100 200
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	0.55	0.55	0.65	0.75	0.85	0.85
Weight(G),approx 重量	kg	2.8	3.2	3.2	3.6	3.6	3.8
Cable 电缆：Diameter 直径：⌀5mm Length长度	m	10	12	12	14	16	16

Mounting variation: 安装方式：
for (10~50)t

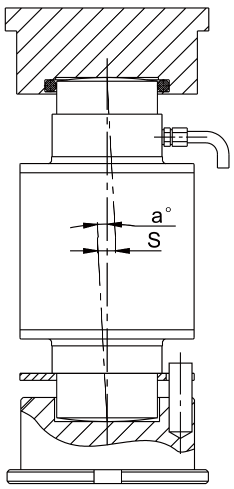
单位Unit: mm



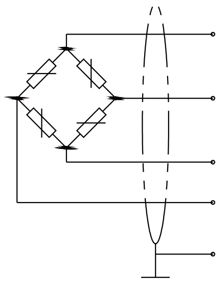
1 GML-Z4 A/ZOU B1

2 GML-Z4 A/ZOU2 B2

3 Dowel pin Φ10×30(rotation stop),
flexible tube and tube clip enclosed
in the packing of the load cell
防旋转插销，伸缩管与管夹在传感器包装中



Wiring code (4-wire circuit)
电缆芯线色标（四线制）



Excitation+ (red) 激励+（红）

Signal+ (green) 信号+（绿）

Excitation- (black) 激励-（黑）

Signal- (white) 信号-（白）

Shield /wire strand 接地电缆防护

Cap(单位)	t	10	15	20	25	30	40	50
R ball 球头半径	mm	130	130	160	160	160	180	180
amax 最大允许倾斜角度	″° ″ 度	4.8	4.8	4.8	4.8	4.8	4.8	4.5
Smax 最大允许侧向偏移	mm	12	12	12	12	12	12	10.5
FR(%of applied load) 回复力（施力大小的百分比）	at Smax	6.3	6.3	9.8	9.8	9.8	12	12
	at S=1mm	0.48	0.48	0.75	0.75	0.75	0.93	0.93

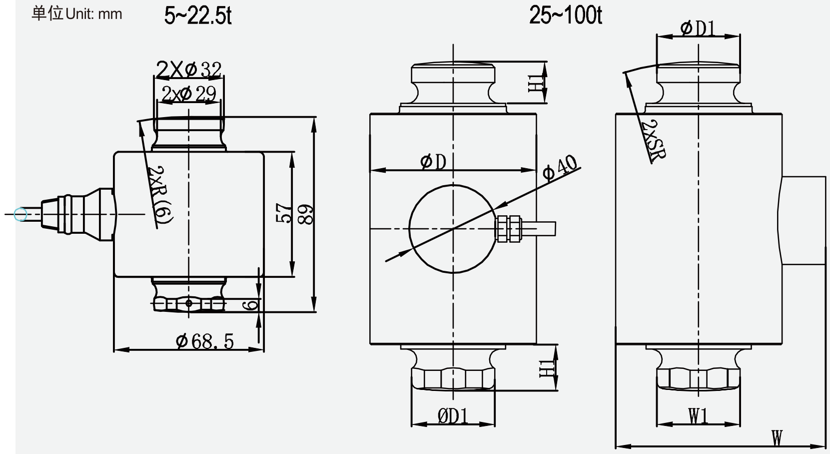
GML-Z4
D Series系列

柱式传感器
Canister Load Cells

激光焊接IP68;
自复位功能;
经过角差预调整适合并联使用(按EN 45501);
模拟及数字版本可选。

Laser welded,IP68;
Self-restoring function;
Optimized for paralled connection by corner pre-adjustment,
Meets EMC/ESD requirements according to EN 45 501;
Analog or digital version selection.

单位Unit: mm



Cap(单位)	5	7.5	10	15	22.5
R(6)	140				160

Cap(单位)	W	W1	H	H1	D	D1	R
10,20,30,40	96	35.5	150	19	76	37.8	160
50	96	35.5	150	19	76	37.8	305
100	122	50.6	150	19	102	53.8	305

Specifications 技术说明 Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	t	**5 / 7.5 / 10 / 15 / 22.5 / 25 / 30 / 40 / 50 / 100**
Minimum LC verification interval(Vmin)最小检定分度值	% of Emax	0.0100
Sensitivity(Cn)/Zero balance 灵敏度/零点平衡	mV/V	2.0±0.002 / 0±0.02
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error(dhy)滞后误差	%of Cn	±0.0180
Non-linearity(dlin)非线性误差	%of Cn	±0.0167
Creep(dcr) over 30 min.蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLc) &Output resistance (R0) 输入&输出电阻	Ω	1150±20 & 1005±5
Nominal range ofexcitation voltage (Bu)额定电压	V	5~15
Insulation resistance(Ris) at 50Vdc 绝缘电阻	MΩ	>5000
Service temperature range(Btu) 工作温度	℃	-40..+70
Safe load limit(EL) & Break load(Ed)破坏载荷&安全承载	% of Emax	150 & 250
Protection class according to EN60529 (IEC 529) 保护等级		IP68
Material:Measuring body+housing材料:测量元件+壳体		Stainless or alloy steel+Stainless steel 合金钢和不锈钢可选+不锈钢

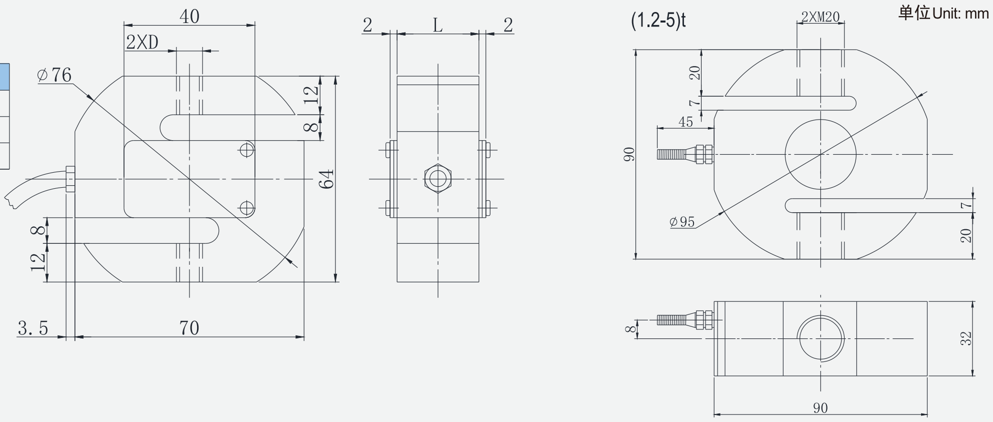
Item 项目	Unit 单位						
Maximum capacity (Emax)额定载荷	t	5	10	15	22.5	25~50	100
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	<0.55	<0.6	<0.65	<0.7	<0.75	<0.85
Weight(G),approx 重量	kg	1.5				3.8	6.3
Cable 电缆：Diameter 直径：ø5mm Length长度	m	12				16	16

GML-S3
E Series系列

S型传感器
S Type Load Cells

结构紧凑，综合精度高；
防护等级IP68。

Compact installation, high accuracy;
IP68.



Cap(单位)	D	L
20~150	M8	12
200~500	M12	20
700~1000	M12	25

Specifications 技术说明

Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax) 额定载荷	**t**	**0.1,0.2,0.25,0.3,0.5,1,2,5**
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.0100
Sensitivity (Cn) 灵敏度	mV/V	2.0±0.002
Zero balance 零点平衡	mV/V	0±0.02
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC) &Output resistance (R0)输入&输出电阻	**Ω**	**400±10 & 352±3**
Nominal range of excitation voltage (Bu)额定电压	**V**	**5~12**
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	≥5000
Service temperature range (Btu)工作温度	℃	-30~70
Safe load limit (EL) & Breaking load(Ed) 安全承载&破坏载荷	% of Emax	120 & 200
Protection class according to EN 60 529 (IEC 529)保护等级		**0.1t~1t:IP67;2t~5t:IP68**
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

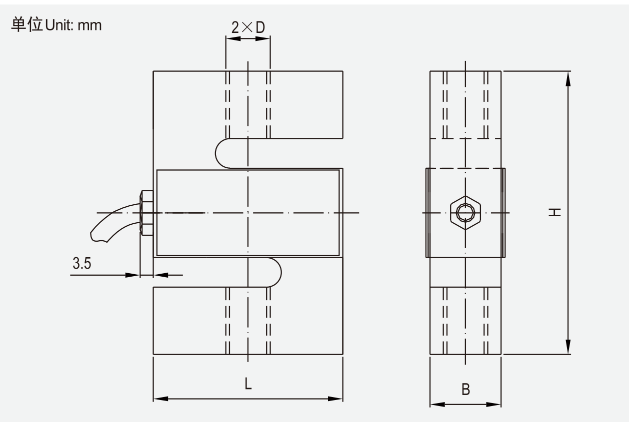
Maximum capacity (Emax)额定载荷	t	0.1,0.2,0.25,0.3,0.5	1	2	3	5
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	0.15	0.25	0.45		
Weight(G),approx 重量	kg	0.6	0.8	1.5		
Cable 电缆：Diameter 直径：⌀5mm Length长度	m	5				

GML-S3
A Series系列

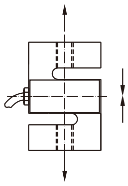
S型传感器
S Type Load Cells

结构紧凑，综合精度高；
防护等级IP68。

Compact installation, high accuracy;
IP68.



Cap(单位)	H	L	B	D
0.1,0.2,0.25,0.3,0.5	76.2	51	19.1	M12
1	76.2	51	25.4	M12
2,3,5	100.4	76.2	31.8	M20×1.5



吊钩秤、皮带秤、配料系统
crane scale,belt scale,blending system

Specifications 技术说明 Exc+(Red,红); Exc-(Black,黑); Sig+(Green,绿); Sig-(White,白) ; Sen+(Blue,蓝); Sen-(Yellow,黄)

Item 项目	Unit 单位	Parameter参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	**t**	**0.1,0.2,0.25,0.3,0.5,1,2,5**
Minimum LC verification interval (Vmin)最小检定分度值	% of Emax	0.01
Sensitivity (Cn) 灵敏度	mV/V	2.0±0.002
Zero balance 零点平衡	mV/V	0±0.02
Temperature effect on zero balance (TKo) 温度对零点影响	% of Cn/10K	±0.0170
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0170
Hysteresis error (dhy)滞后误差	% of Cn	±0.0180
Non-linearity(dlin)非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Input (RLC) &Output resistance (Ro)输入&输出电阻	**Ω**	**400±10 & 352±3**
Nominal range of excitation voltage (Bu)额定电压	**V**	**5~12**
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	≥5000
Service temperature range (Btu)工作温度	℃	-30~70
Safe load limit (EL) & Breaking load(Ed) 安全承载&破坏载荷	% of Emax	120 & 200
Protection class according to EN 60 529 (IEC 529)保护等级		**0.1t~1t:IP67;2t~5t:IP68**
Material 材料		合金钢和不锈钢可选 Option: Alloy steel,Stainless steel.

Maximum capacity (Emax)额定载荷	t	0.1,0.2,0.25,0.3,0.5	1	2	3	5
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	0.15	0.25	0.45		
Weight(G),approx 重量	kg	0.6	0.8	2.5		
Cable 电缆：Diameter 直径：ø5mm Length长度	m	5				

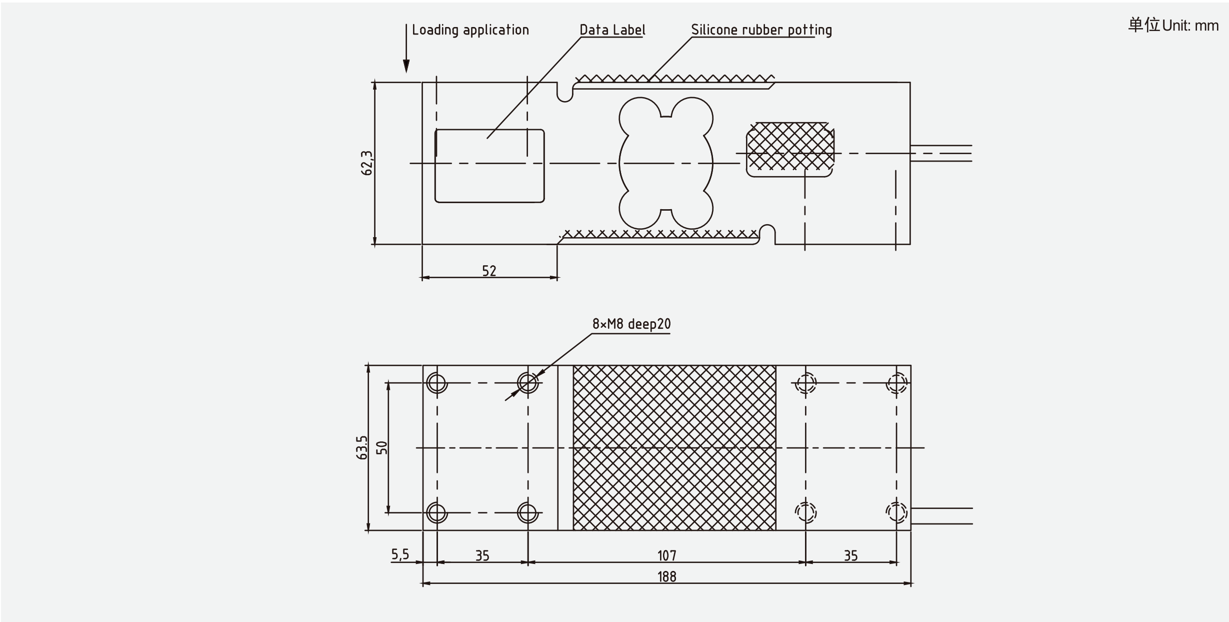
GML-D6 1260 Series系列

单点式传感器

Single Point Load Cells

铝合金材质；
防护等级: IP65；
适合单个或者双个传感器结构的秤体的平台秤。

Alloy steel;
IP65;
Suitable for platform scale with single or dual load cells.

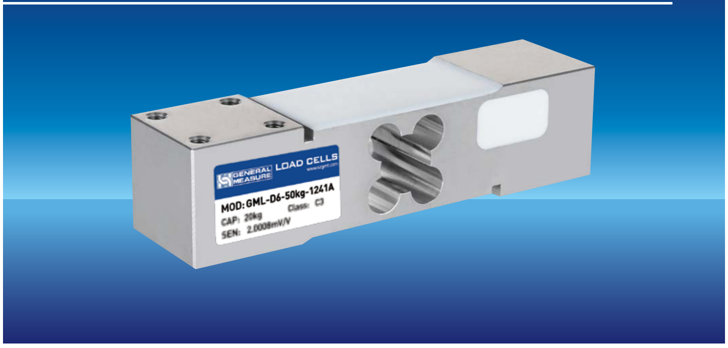


Specifications 技术说明 Exc+激励正 (Red,红);Exc-激励负(Black,黑);Sig+信号正(Green,绿);Sig-信号负(White,白)

Item项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	kg	**150 / 250 / 500 / 750**
Minimum LC verification interval(Vmin)最小检定分度值	% of Emax	0.0023
Sensitivity(Cn)/Zero balance 灵敏度/零点平衡	mV/V	2.0±0.2
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.017
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.010
Hysteresis error(dhy)滞后误差	%of Cn	<±0.017
Non-linearity(dlin)非线性误差	%of Cn	<±0.017
Creep(dcr) over 30 min.蠕变及蠕变恢复	% of Cn	<±0.017
Input (RLc) &Output resistance (R0) 输入&输出电阻	Ω	404±10 & 350±3
Nominal range ofexcitation voltage (Bu)额定电压	V	5~15
Insulation resistance(Ris) at 50Vdc 绝缘电阻	MΩ	>5000
Service temperature range(Btu) 工作温度	℃	-30...+70
Safe load limit(EL) & Break load(Ed)破坏载荷&安全承载	% of Emax	150 &300
Protection class according to EN60529 (IEC 529) 保护等级		IP65
Weight(G),approx重量	kg	1.8
Cable 电缆: Diameter直径Φ6mm Length 长度	m	2.5

GENERAL MEASURE
杰 · 曼 · 科 · 技

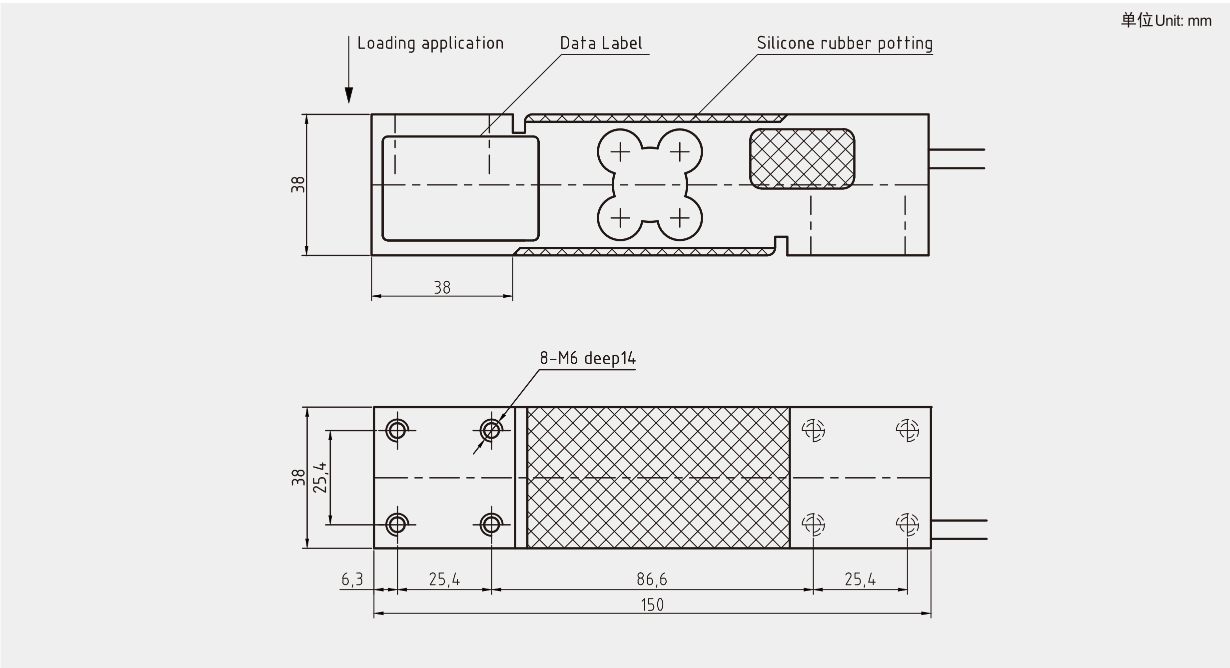
GML-D6 1241 Series系列



单点式传感器
Single Point Load Cells

铝合金材质；
防护等级: IP65；
适合单个或者双个传感器结构的秤体的平台秤。

Alloy steel;
IP65;
Suitable for platform scale with single or dual load cells.



Specifications 技术说明

Exc+激励正 (Red,红);Exc-激励负(Black,黑);Sig+信号正(Green,绿);Sig-信号负(White,白)

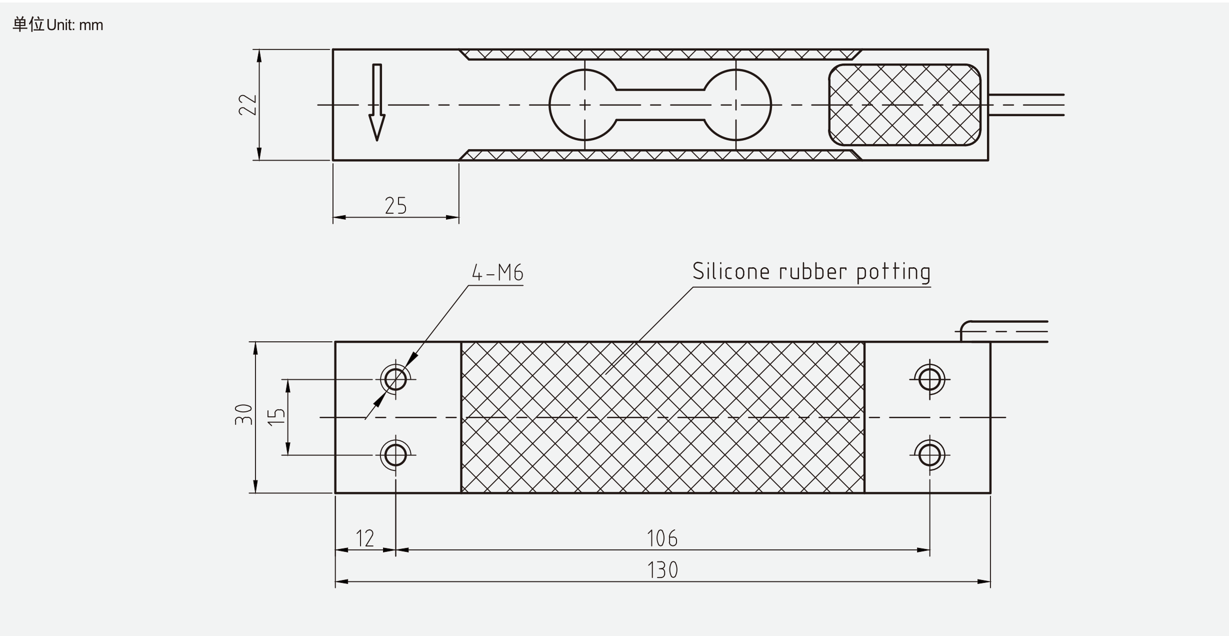
Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	kg	**50 / 100 / 200 / 250**
Minimum LC verification interval(Vmin)最小检定分度值	% of Emax	0.0023
Sensitivity(Cn)/Zero balance 灵敏度/零点平衡	mV/V	2.0±0.2
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.017
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.010
Hysteresis error(dhy)滞后误差	%of Cn	<±0.017
Non-linearity(dlin)非线性误差	%of Cn	<±0.017
Creep(dcr) over 30 min.蠕变及蠕变恢复	% of Cn	<±0.017
Input (RLc) &Output resistance (R0) 输入&输出电阻	Ω	404±10 & 350±3
Nominal range ofexcitation voltage (Bu)额定电压	V	5~15
Insulation resistance(Ris) at 50Vdc 绝缘电阻	MΩ	>5000
Service temperature range(Btu) 工作温度	℃	-30...+70
Safe load limit(EL) & Break load(Ed)破坏载荷&安全承载	% of Emax	150 &300
Protection class according to EN60529 (IEC 529) 保护等级		IP65
Weight(G),approx重量	kg	0.6
Cable 电缆: Diameter直径Φ6mm Length 长度	m	2.0

GML-D6 1022 Series系列

单点式传感器
Single Point Load Cells

铝合金材质；
防护等级: IP65；
适合单个或者双个传感器结构的秤体的平台秤。

Alloy steel;
IP65;
Suitable for platform scale with single or dual load cells.



Specifications 技术说明 Exc+激励正 (Red,红);Exc-激励负(Black,黑);Sig+信号正(Green,绿);Sig-信号负(White,白)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax) 额定载荷	kg	**5 / 10 / 20 / 40 / 50**
Minimum LC verification interval(Vmin)最小检定分度值	% of Emax	0.0023
Sensitivity(Cn)/Zero balance 灵敏度/零点平衡	mV/V	2.0±0.2
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.017
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.010
Hysteresis error(dhy)滞后误差	%of Cn	<±0.017
Non-linearity(dlin)非线性误差	%of Cn	<±0.017
Creep(dcr) over 30 min.蠕变及蠕变恢复	% of Cn	<±0.017
Input (RLc) &Output resistance (R0) 输入&输出电阻	Ω	404±10 & 350±3
Nominal range ofexcitation voltage (Bu)额定电压	V	5~15
Insulation resistance(Ris) at 50Vdc 绝缘电阻	MΩ	>5000
Service temperature range(Btu) 工作温度	℃	-30...+70
Safe load limit(EL) & Break load(Ed)破坏载荷&安全承载	% of Emax	150 &300
Protection class according to EN60529 (IEC 529) 保护等级		IP65
Weight(G),approx重量	kg	0.2
Cable 电缆: Diameter直径Φ6mm Length 长度	m	0.35[可选: 1.0]

GENERAL MEASURE
杰 · 曼 · 科 · 技

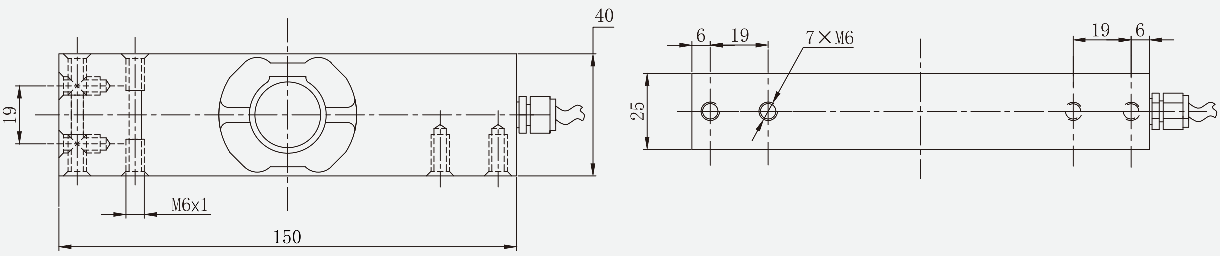
GML-D6 845 Series系列

单点式传感器
Single Point Load Cells

优质不锈钢，综合精度高；
四角偏差已补偿、安装简便快捷；
激光焊接，IP等级IP69K;
适用于罐装秤、食品设备过程称重等模拟及数字版本可选。
模拟及数字版本可选。

High quality stainless steel, high accuracy;
Four corner deviation, easy installation;
Laser welding, IP69K;
Suitable for silo scale, food equipment online weighing;
Analog or digital version selection.

单位Unit: mm



Specifications 技术说明 Exc+激励正 (Red,红);Exc-激励负(Black,黑);Sig+信号正(Green,绿);Sig-信号负(White,白)

Item 项目	Unit 单位	Parameter 参数
Accuracy class 精度等级		C3
Maximum capacity (Emax)额定载荷	**t**	10,20,50,100
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	**mV/V**	2.0±0.2 / 0±0.02
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0175
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0175
Hysteresis error (dhy) 滞后误差	% of Cn	±0.02
Non-linearity(dlin) 非线性误差	% of Cn	±0.0270
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0250
Eccentric error 四角误差	%	±0.0233
Input (RLC)&Output resistance (R0) 输入&输出电阻	Ω	**400±30 & 352±3**
Nominal range of excitation voltage (Bu) 额定电压	**V**	5~15
Insulation resistance(Ris)at 50Vdc 绝缘电阻	MΩ	＞5000
Service temperature range (Btu) 工作温度	℃	-20...+50
Safe load limit (EL)&Breaking load(Ed) 安全承载&破坏载荷	% of Emax	150 & 200
Protection class according to EN 60 529 (IEC 529) 保护等级		**IP67**
Material 材料		不锈钢 Stainless steel.

Item 项目	Unit 单位				
Maximum capacity (Emax) 额定载荷	kg	10	20	50	100
Min. load cell verification inter(vmin) 最小检定分度值	g	2	5	10	20

Item 项目	Unit 单位	Parameter 参数
Maximum platform size 最大秤台尺寸	mm	500×400
Deflection at Emax (snom) ,approx 最大载荷下的变形量	mm	＜0.5
Weight(G),approx 重量	kg	1.5
Cable 电缆：Diameter 直径：ø6mm Length长度	m	3

GENERAL MEASURE
杰 • 曼 • 科 • 技

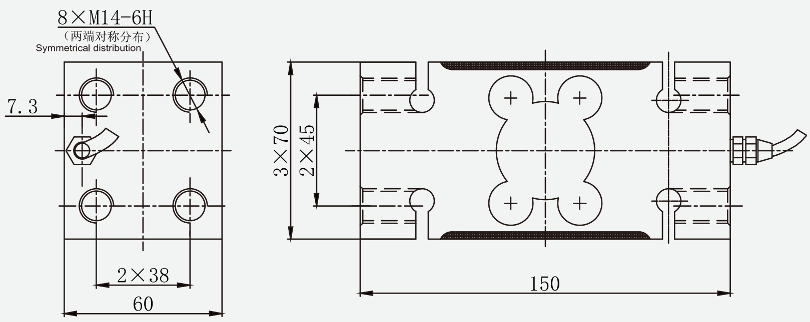
GML-X11 K Series系列

箱式传感器
Single Point Load Cells

合金钢材质，表面镀镍精度高；
抗偏载能力强；
防护等级IP67。

Alloy steel, surface nickel-plated, high accuracy;
High capability for anti-biased load;
IP67.

单位Unit: mm



Specifications 技术说明

Exc+激励正 (Red,红);Exc-激励负(Black,黑);Sig+信号正(Green,绿);Sig-信号负(White,白)

Item项目	Unit单位	Parameter参数
Accuracy class 精度等级		C3
Maximum capacity (Emax) 额定载荷	**kg**	50,100,200,300,500,1000
Sensitivity (Cn) / Zero balance 灵敏度/零点平衡	**mV/V**	**2.0±0.02**
Temperature effect on zero balance (TK0) 温度对零点影响	% of Cn/10K	±0.0140
Temperature effect on sensitivity (TKc) 温度对灵敏度影响	% of Cn/10K	±0.0140
Hysteresis error (dhy) 滞后误差	% of Cn	±0.0150
Non-linearity(dlin) 非线性误差	% of Cn	±0.0167
Creep(dcr) over 30 min. 蠕变及蠕变恢复	% of Cn	±0.0167
Eccentric error 四角误差	%	±0.0233
Input (RLC) &Output resistance (R0) 输入&输出电阻	Ω	**400±15 & 352±3**
Nominal range of excitation voltage (Bu) 额定电压	**V**	**5~15**
Insulation resistance (Ris) at50Vdc 绝缘电阻	MΩ	⩾5000
Service temperature range (Btu) 工作温度	℃	-20~50
Safe load limit (EL) & Breaking load(Ed) 安全承载&破坏载荷	% of Emax	120 & 200
Protection class according to EN 60 529 (IEC 529) 保护等级		**IP65**
Material 材料		合金钢材质 Alloy steel.

Maximum capacity (Emax) 额定载荷	kg	50	100	200	300	500	750
Min. load cell verification inter(vmin) 最小检定分度值	g	20	20	50	50	100	100
Maximum platform size 最大秤台尺寸	mm	800×800					
Deflection at Emax (snom) ,approx最大载荷下的变形量	mm	＜0.6					
Weight(G),approx 重量	kg	4.3			4.5		
Cable电缆: Diameter直径: ø5mm Length 长度	m	3m					
Mounting:Cylindrical head screw装配:内六角圆柱头螺钉		M14-10.9					
Tightening torque 螺丝紧固力矩	N. m	35N.m					

B

称重模块及附件
Weighing module

订货型号信息Model Order Information：

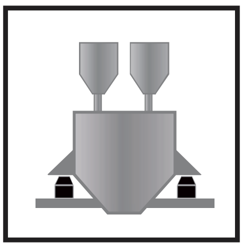
GML-M 匹配的传感器数字代码 (Load cell digital code) | 模块类型 (Module type) | 附件类型 (Accessory type) | 材质-量程段 (Material / Weighing range)

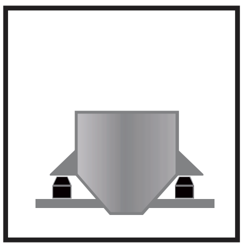
Load cell digital code 匹配的传感器数字代码:
- shear beam: 8 悬臂梁为8
- bending beam: 5 波纹管为5
- canister: 4 柱式为4
- s type: 3 S型为3
- pancake: 7 轮辐式为7

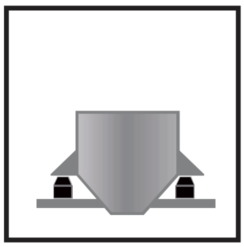
Module type 模块类型:
- 模块类型:0, 1,2, 3...
- Module type:0, 1, 2, 3...
- 0为非模块部分附件
- 0 is non-module accessory

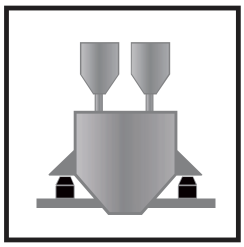
Accessory type 附件类型:
- 附件号:0, 1,2, 3...
- Accessory no.:0, 1, 2, 3...
- 0为模块整体
- 0 is entire module

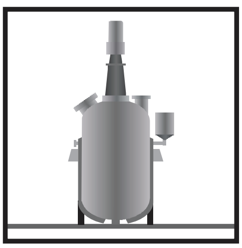
Material 材质:
- 不锈钢：S Stainless steel: S
- 合金钢：C Alloy steel: C

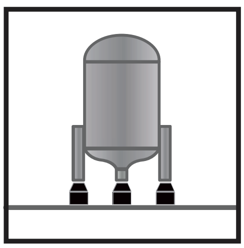

静态小量程：料斗秤 料仓秤
Hopper scale (small)

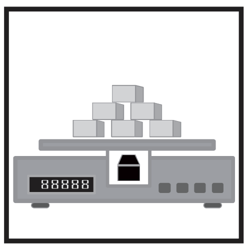

静态中量程：料斗秤 料仓秤
Hopper scale (medium)


静态大量程：料斗秤 料仓秤
Hopper scale (large)

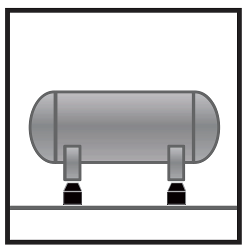

静动态小量程：搅拌斗秤
Batching scale


静动态中量程：反应釜秤
Silo scale


静动态大量程：筒仓秤
Silo scale



板坯秤 钢卷秤 废钢秤
Platform scale


卧罐秤
Tank scale

GML-M810

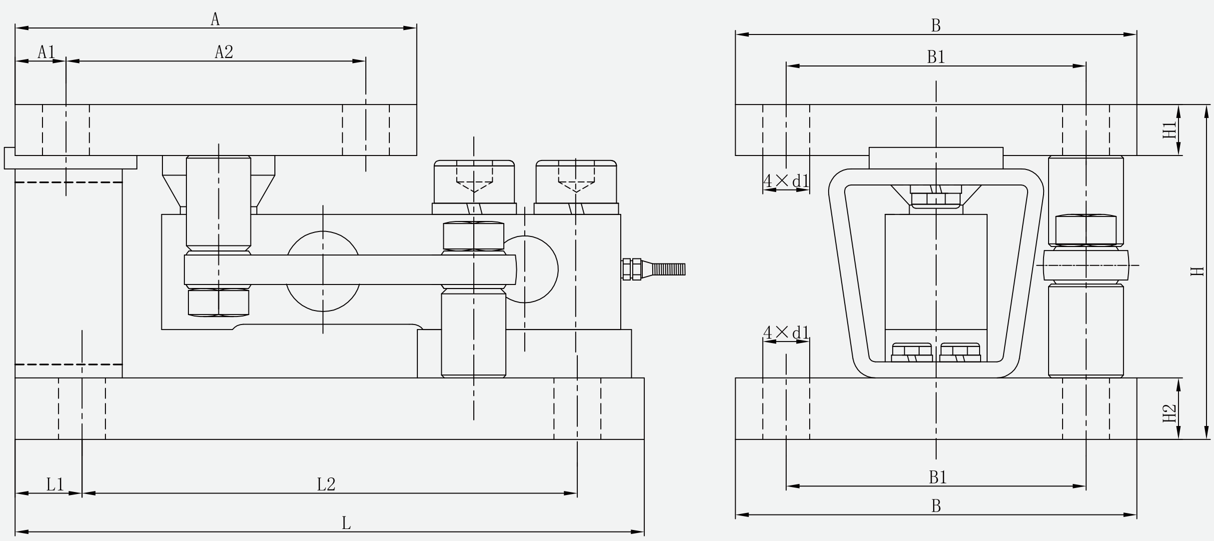
悬臂梁模块

Weighing module with shear beam load cells

适用于GML-X8 F/B系列传感器;
结构紧凑，安装简便;
防倾覆保护，防过载保护;
适用于动静载场合;
不锈钢及合金钢材质可选。

GML-X8 F/B series are apply to this module;
Compact installation, easy installation;
Overturn and overload preventing protection;
Suitable for static and online weighing;
Stainless steel and alloy steel selection.

单位Unit: mm



Cap(单位)	A	A1	A2	L	L1	L2	B	B1	H	H1	H2	d1
0.5,1,2	114	12.5	89	177.5	12.5	152.5	114	89	105	17	17	Ø11.2
3	114	12.5	89	177.5	12.5	152.5	114	89	108	19	19	Ø11.2
4.4	150	18	112	235	25	185	150	112	125	19	22	Ø17.5
7.5	150	18	112	235	25	185	150	112	135	22	29	Ø17.5
10	200	25	150	350	25	300	200	150	180	32	44	Ø22

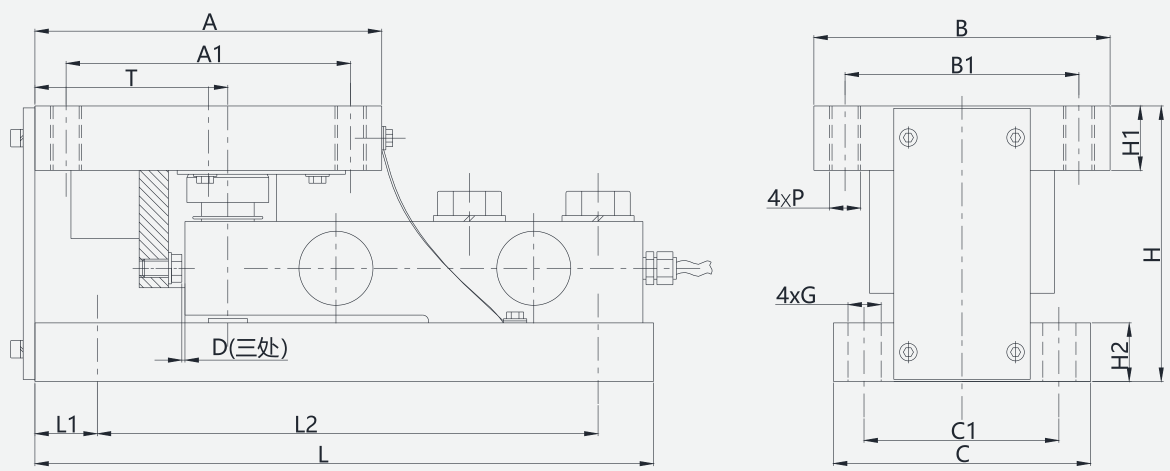
GML-M820

悬臂梁模块
Weighing module with shear beam load cells

适用于GML-X8 S系列传感器;
结构紧凑，安装简便;
适用于动载场合;
不锈钢及合金钢材质可选。

GML-X8 S series are apply to this module;
Compact installation, easy installation;
Suitable for online weighing;
Stainless steel and alloy steel selection.

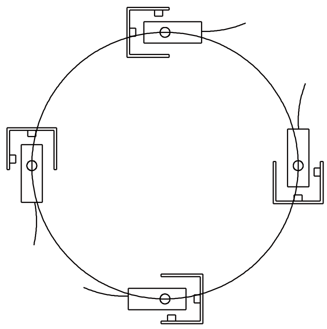
单位Unit: mm



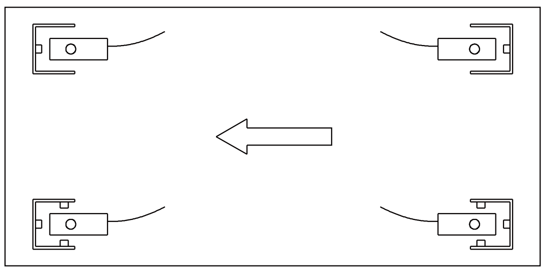
Cap(单位)	A	A1	B	B1	T	L	L1	L2	C	C1	H	H1	H2	P	G	D
0.5,1,2	150	124	128	102	96	286	32	226	112	80	107	19	19	M10	ø13	1.6
3	150	124	128	102	96	286	32	226	112	80	107	24	23	M10	ø13	1.6
5,8	178	146	152	120	99	318	32	257	152	102	146	38	30	M16	ø17	1.6
10,15	184	152	154	122	105	360	32	295	154	106	216	45	45	M20	ø21	3

Mounting examples for weighing modules 安装方式

Cutting install 切向方式



Rectangle Install 矩形方式



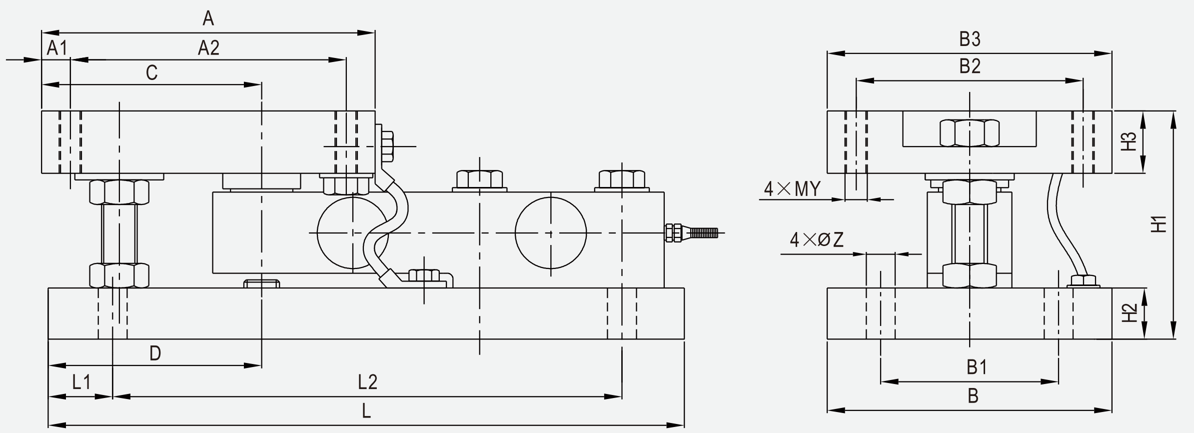
GML-M830

悬臂梁模块
Weighing module with shear beam load cells

适用于GML-X8 S系列传感器;
结构紧凑，安装简便;
适用于静载场合;
不锈钢及合金钢材质可选。

GML-X8 S series are apply to this module;
Compact installation, easy installation;
Suitable for static weighing;
Stainless steel and alloy steel selection.

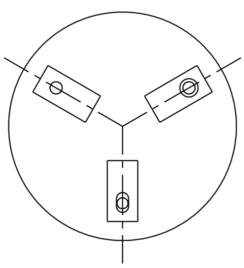
单位Unit: mm



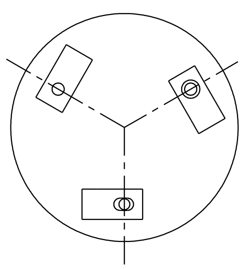
Cap(单位)	A	A1	A2	C	D	L	L1	L2	B	B1	B2	B3	H1	H2	H3	Y	Z
0. 5,1,2	150	16	124	99	96	286	32	226	112	80	102	128	107	19	24	10	13
3	150	16	124	99	96	286	32	226	112	80	102	128	107	23	28	10	13
5,8	178	16	146	102	99	318	32	257	152	102	120	152	130	30	38	16	17
10,15	184	16	152	108	105	360	32	295	154	106	122	154	168	45	45	20	21

Mounting examples for weighing modules 安装方式

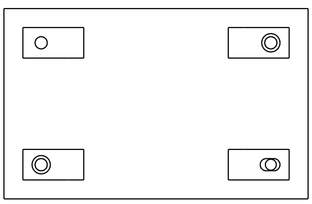
Radial install 径向方式

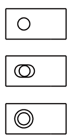


Cutting install 切向方式



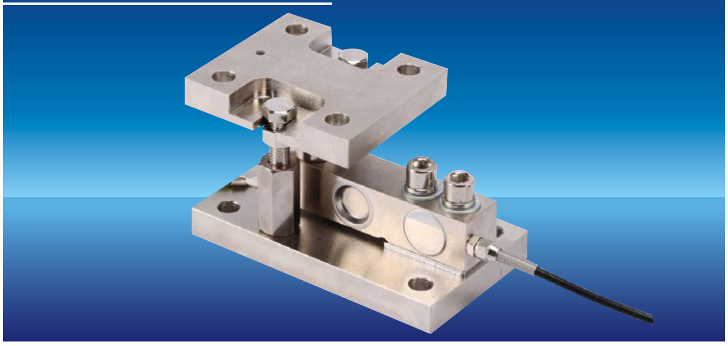
Rectangle install 矩形方式





Fixed Module 固定式
Semi-float Mudule 半浮动式
Float Module 全浮动式

GML-M840



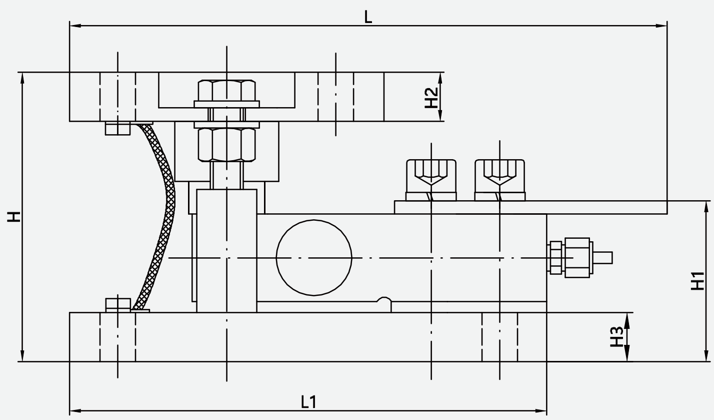
悬臂梁模块

Weighing module with shear beam load cells

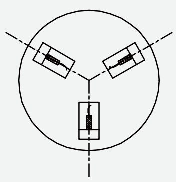
适用于GML-X8 Q系列传感器;
结构紧凑，安装简便;
不锈钢及合金钢材质可选。

GML-X8 Q series are apply to this module;
Compact installation, easy installation;
Stainless steel and alloy steel selection.

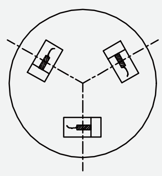
单位Unit: mm

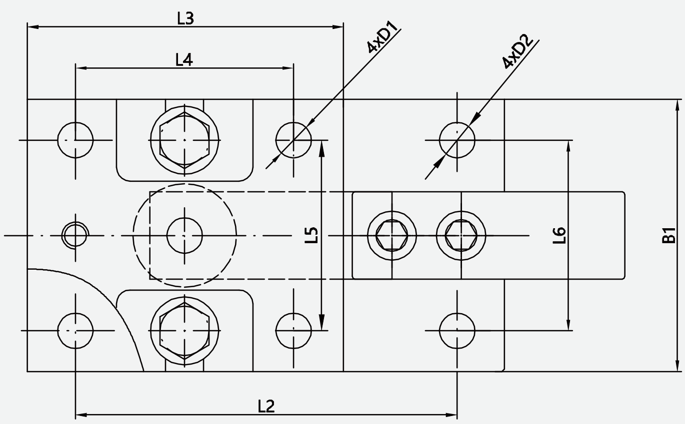


Radial install
径向方式

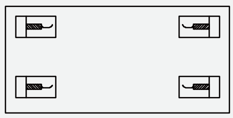


Cutting install
切向方式





Rectangle install
矩形方式



Cap(单位)	H	H1	H2	H3	B1	D1	D2	L	L1	L2	L3	L4	L5	L6
0.1~2t	106	58	18	18	100	Φ13	Φ13	210	175	140	116	80	70	70
3,5	135	70	23	23	160	Φ17	Φ17	270	235	200	150	100	90	90
7.5,10	186.3	93.3	38	38	180	Φ26	Φ26	345.2	310	250	210.4	150.4	110	110

GENERAL MEASURE
杰 · 曼 · 科 · 技

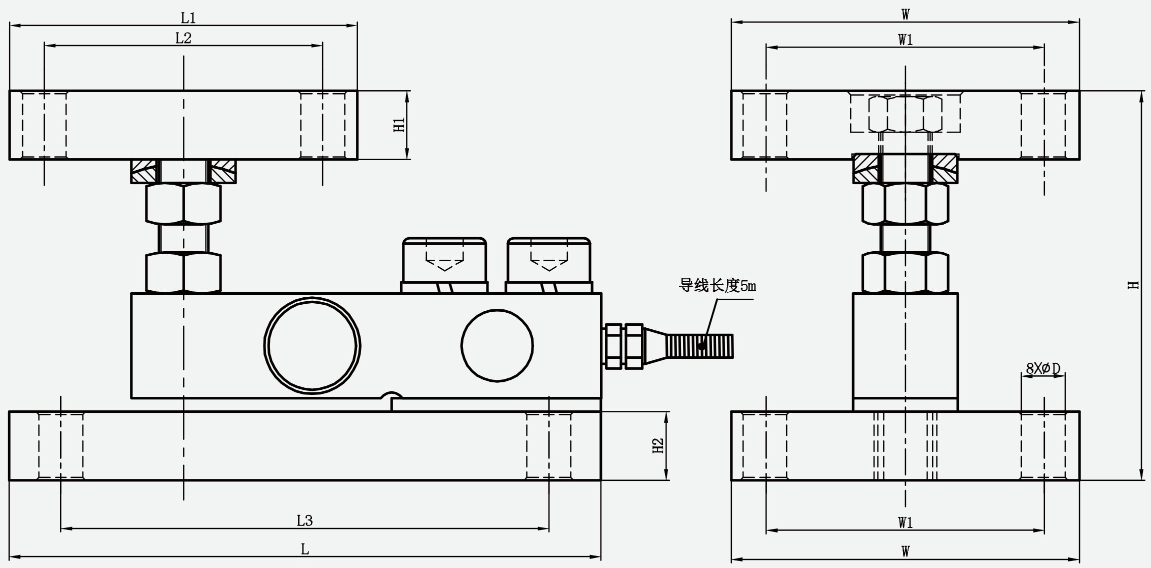
GML-M850

悬臂梁模块
Weighing module with shear beam load cells

适用于GML-X8 Q系列传感器;
结构紧凑，安装简便;
不锈钢及合金钢材质可选。

GML-X8 Q series are apply to this module;
Compact installation, easy installation;
Stainless steel and alloy steel selection.

单位Unit: mm



Cap(单位)	L	L1	L2	L3	H	H1	H2	W	W1	D
0.1~2t	180.9	127	101.6	102	110±5	18	18	127	101.6	16
3,5	215.9	127	101.6	120	140±5	26	26	127	101.6	16
7.5,10	286	170	127	239	195±10	34	34	170	127	18

GML-M510

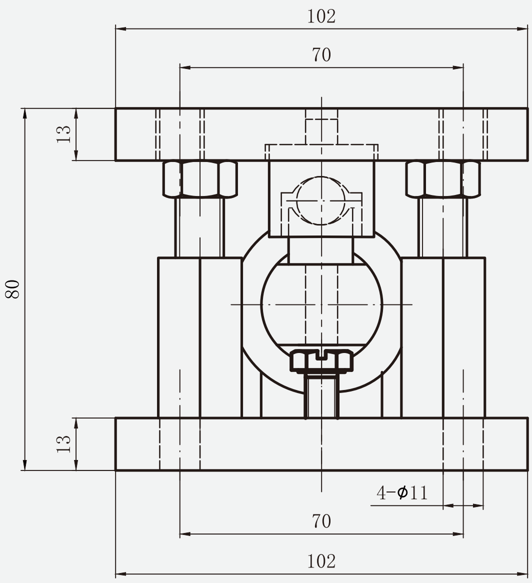
波纹管模块

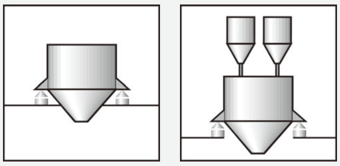
Weighing module with bending beam load cells

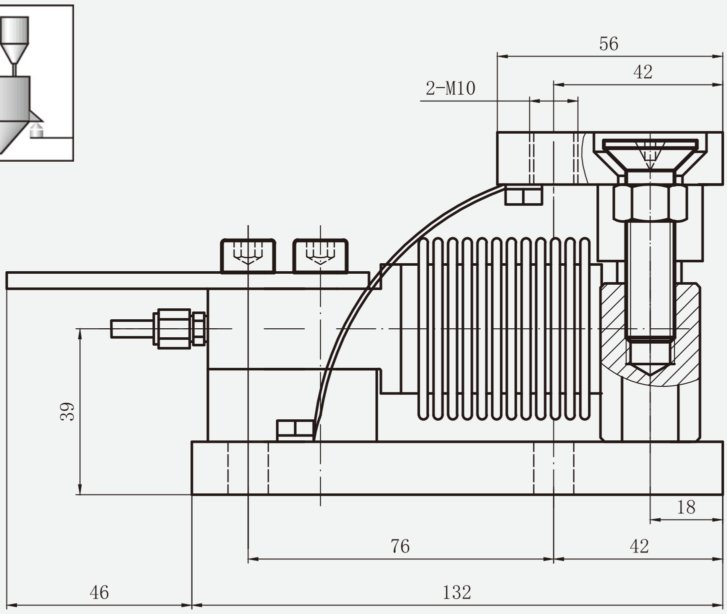
适用于GML-B5 M系列传感器;
结构紧凑，安装简便;
不锈钢及合金钢材质可选。

GML-B5 M series are apply to this module;
Compact installation, easy installation;
Stainless steel and alloy steel selection.

单位Unit: mm







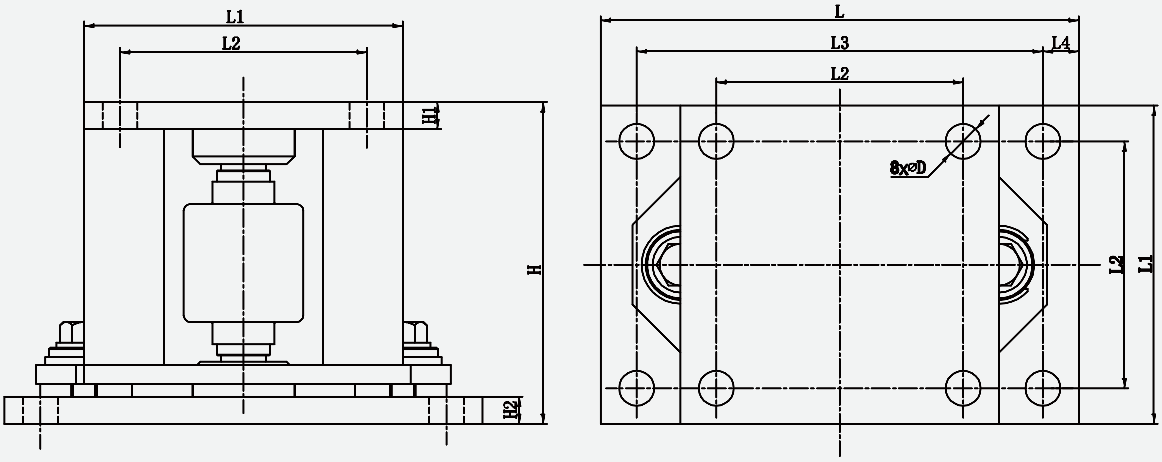
GML-M420

柱式模块
Weighing module with canister load cells

适用于GML-Z4 D系列传感器;
结构紧凑，安装简便;
不锈钢及合金钢材质可选。

GML-Z4 D series are apply to this module;
Compact installation, easy installation;
Stainless steel and alloy steel selection.

单位Unit: mm



Cap(单位)	D	H	H1	H2	L	L1	L2	L3	L4
7.5~22.5t	22	152	12	17	300	200	155	255	22.5
10~70t	22	200	17	17	300	200	155	255	22.5
100t	32	263	30	33	440	300	235	375	32.5

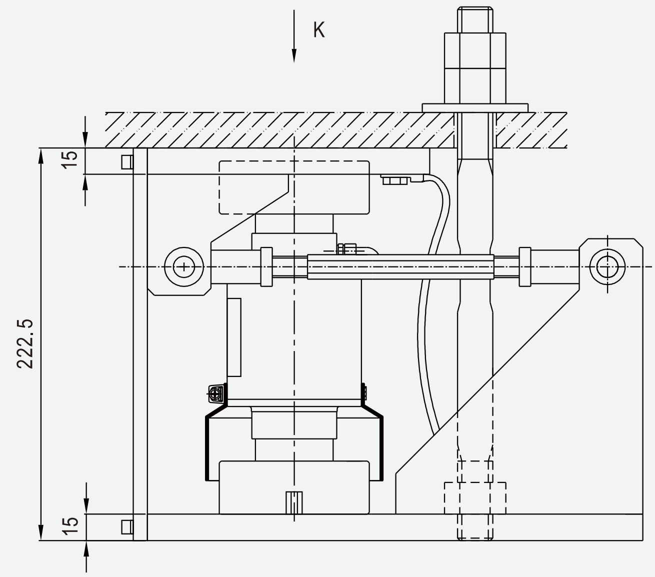
GML-M410

柱式模块
Weighing module with canister load cells

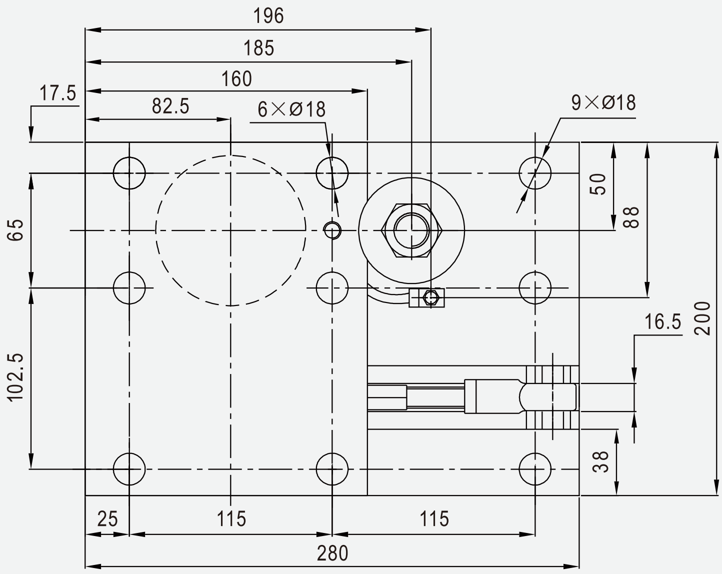
适用于GML-Z4 A系列传感器；
结构紧凑，安装简便；
不锈钢及合金钢材质可选.

GML-Z4 A series are apply to this module;
Compact installation, easy installation;
Stainless steel and alloy steel selection.

单位Unit: mm

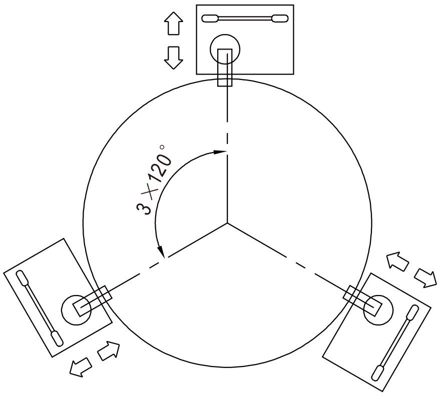


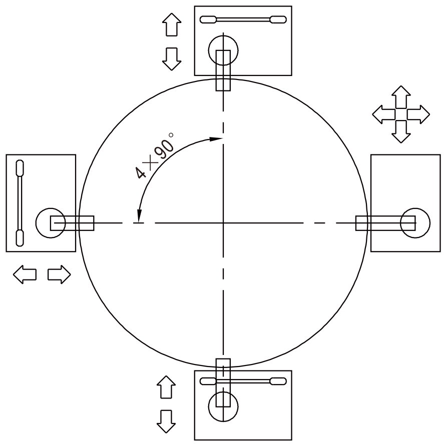
Top view , 顶示图，无容器脚
drawing without tank foot



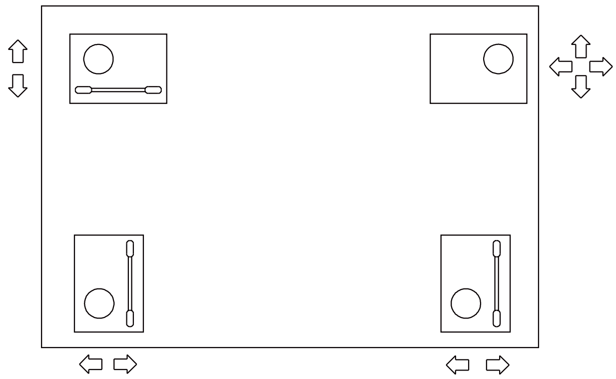
Mounting examples for weighing modules with stay rods: 带有支撑杆的称重模块安装示例

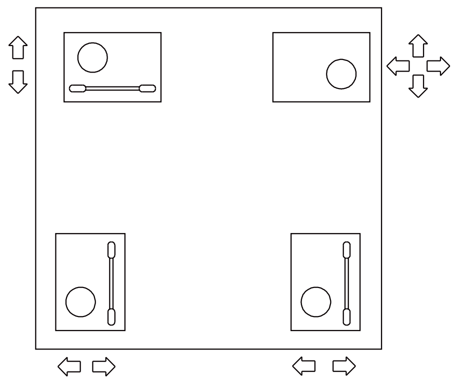
Cylindrical arrangement of the weighing module below tanks
称重模块在罐下部的的圆形布置





Rectangular arrangement of the weighing module below tanks
称重模块在罐下部的的方形布置

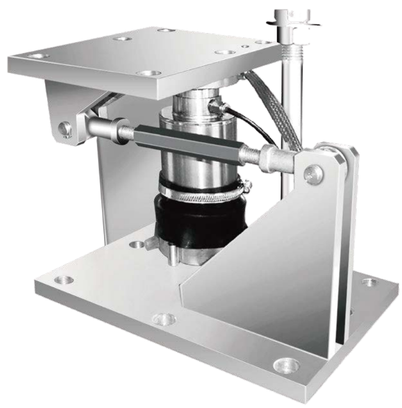




Remark备注： Stay rod 支撑杆 Load introduction负载方向 Degree of freedom 自由度

Further accessory: 其他附件

Fixed bearings with the same installation height as the weighing module.
固定底座与称重模块是同样的高度；安装时具有替代作用。



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