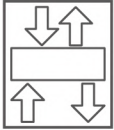
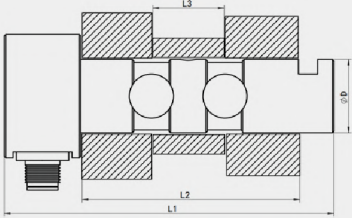


INTRODUCTION
Product

TDP2-小量程销轴式力传感器
Small-Rangeability Shaft-Pin Force Sensor



受力方向



额定载荷 Rated Load (T)	ΦD	L1	L2	L3
0.5	20	70	36	24
1	20	80	49	35
2.5	25	100	70	45
3.5	30	105	75	50
6.5	40	125	95	63
10...	尺寸可定制 Customized			

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)

产品特点

Product Features

- ◆剪切式测力传感器，采用销轴式结构
- ◆不锈钢、合金钢等多种材料弹性元件可选，应变精准
- ◆树脂密封，性能可靠
- ◆可内置放大器，高稳定性
- ◆可替换固定绞轴，多方向受力选择
- ◆适用于大量程测力范围
- ◆部分产品已取得PLd等级功能安全认证
- ◆The shearing force measuring sensor adopts the structure of shaft pin.
- ◆Stainless steel, alloy steel and other elastic material are optional with high strain accuracy.
- ◆Sealed with resin with performance reliability.
- ◆Built-in amplifier with high stability.
- ◆Replaceable hinged shaft with multidirectional loading optional.
- ◆Suitable for small range measuring.
- ◆Some products have obtained the PLd grade safety certification.

应用行业

Application Industry

- ◆港口机械 船舶设备
- ◆农业机械 (拖拉机后悬挂等)
- ◆实验测力设备
- ◆钻井设备等石油机械
- ◆工程机械
- ◆煤炭机械 矿山机械
- ◆Habor Machinery & Marine Equipment
- ◆Agriculture Machinery (Rear suspension for tractors, etc)
- ◆Experimental Force Measurement
- ◆Drilling Equipment & Petroleum Machinery
- ◆Construction Machinery
- ◆Coal & Mining Machinery



技术参数 (特殊需求可定制)

Technical Specifications (Customized)

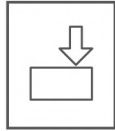
参数名称 Routine Test	参数值 Spec	单位 Unit
额定载荷 Rated Load	0 - 10	T
安全载荷 Safe Load	150	%F.S.
极限载荷 Limited Load	250	%F.S.
非线性误差 Non-linear Error	±0.5	%F.S.
滞后误差 Lag Error	±0.5	%F.S.
重复性误差 Repeatability Error	±0.5	%F.S.
零点温漂 Temp Zero Drift	≤±0.05	%F.S./10℃
蠕变 Creep (30分钟 Min)	≤±0.02	%F.S.
温补范围 Temp.Compensation Range	-20 - 60	℃
使用温度 Operating Temp	-30 - 80	℃
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) (Millivolt output 5-12)	VDC
灵敏度 Sensitivity	1.5 2	±0.05mv/v
输入阻抗 Input impedance	380 780	±15Ω
输出阻抗 Output impedance Resistance	350 700	±3Ω
零点输出 Zero output	≤1	%F.S.
绝缘电阻 Insulation Resistance	≥5000	MΩ(50VDC)
电流消耗 Current drain	<50	mA
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional	

选型表

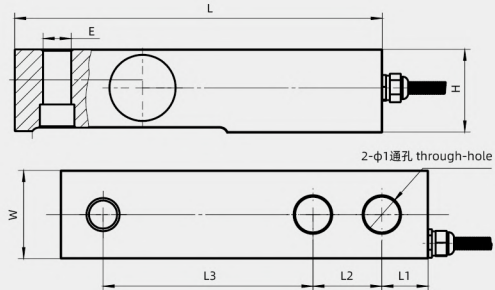
Type Selection List

TDP2	小量程销轴式力传感器 Small-Rangeability Shaft-Pin Force Sensor				
代码Code	出线方式 Outgoing Wiring Method				
	X	航空插头出线 Aviation connector			
	Y	电缆接头直接出线 Cable connector			
	O	其它 Other Connector			
	代码Code	输出方式 Output Method			
	A	4-20mA			
	V1	0.5-4.5V			
	V2	mv			
	V3	0-10V			
	V4	0-5V			
	C	CAN			
	R1	485			
	R2	232			
		代码Code	量程 Range		
		T	0-10T		
		代码Code	受力方向 Force Direction		
			DTP	双轴拉压双向 Biaxial with drawing and pressing in two directions	
			TP	拉压双向 Drawing and pressing in two directions	
			T	单拉 One-way drawing	
			P	单压 One-way pressing	
		代码Code	材质 Material		
			B	不锈钢 Stainless steel	
			H	合金钢 Alloy steel	
			O	其它 Other material	
			代码Code	精度等级 Accuracy Grade	
H		高精度 High accuracy			
R		常规 General Precision			

TDH-悬臂梁式力传感器
Cantilever-type Force Sensor



受力方向



量程Range (T)	L1	L2	L3	L	H	W	E	Φ1
1	16.4	25.4	76.2	133.4	30.2	30.7	M12	13
2,3	18	64	100	202	43	40	M16	15
5	20	67	124	235	65	48	M20	20

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)

产品特点

Product Features

- ◆单压式称重传感器。
- ◆不锈钢、合金钢等多种材料弹性元件可选，应变精准
- ◆可内置放大器、可冗余
- ◆外形高度低、结构强度高。
- ◆部分产品已取得PLd等级功能安全认证
- ◆Single pressure weighing sensor.
- ◆Stainless steel, alloy steel and other elastic material are optional with high strain accuracy.
- ◆Built-in amplifier, providing redundancy.
- ◆Low overall height, high structure strength.
- ◆Some products have obtained the PLd grade safety certification

应用行业

Application Industry

- ◆物流设备
- ◆高空作业平台
- ◆水泥搅拌站
- ◆环保设备
- ◆包装设备
- ◆实验测力设备
- ◆冶金设备
- ◆Logistic Equipment
- ◆High-altitude Operation Platform
- ◆Cement mixing station
- ◆Environmental Protection Equipment
- ◆Packaging Equipment
- ◆Experimental Force Measurement
- ◆Metallurgical Equipment



技术参数 (特殊需求可定制)

Technical Specifications (Customized)

参数名称 Routine Test	参数值 Spec	单位 Unit
额定载荷 Rated Load	0 - 5	T
安全载荷 Safe Load	120	%F.S.
极限载荷 Limited Load	150	%F.S.
非线性误差 Non-linear Error	±0.05	%F.S.
滞后误差 Lag Error	±0.05	%F.S.
重复性误差 Repeatability Error	±0.05	%F.S.
零点温漂 Temp Zero Drift	≤±0.05	%F.S./10℃
蠕变 Creep (30分钟 Min)	≤±0.02	%F.S.
温补范围 Temp.Compensation Range	-20 - 60	℃
使用温度 Operating Temp	-30 - 80	℃
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) 9-32(Millivolt output 5-12)	VDC
灵敏度 Sensitivity	1.5 2	±0.05mv/v
输入阻抗 Input impedance	380 700	±15Ω
输出阻抗 Output impedance Resistance	350 700	±3Ω
零点输出 Zero output	≤1	%F.S.
绝缘电阻 Insulation Resistance	≥5000	MΩ (50VDC)
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional	

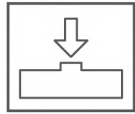
选型表

Type Selection List

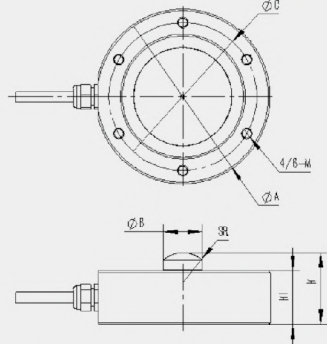
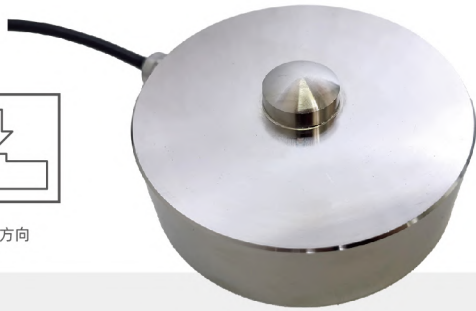
TDH	悬臂梁式力传感器 Cantilever-type Force SensorForce Sensor			
	代码Code	出线方式 Outgoing Wiring Method		
	X	航空插头出线 Aviation connector		
	Y	电缆接头直接出线 Cable connector		
	O	其它 Other Connector		
	代码Code	输出方式 Output Method		
	A	4-20mA		
	V1	0.5-4.5V		
	V2	mv		
	V3	0-10V		
	V4	0-5V		
	C	CAN		
	R1	485		
	R2	232		
	代码Code	量程 Range		
		T	0-5T	
	代码Code	受力方向 Force Direction		
		T	单拉 One-way drawing	
	P	单压 One-way pressing		
		代码Code	材质 Material	
	B		不锈钢 Stainless steel	
	H		合金钢 Alloy steel	
	O		其它 Other material	
	代码Code	精度等级 Accuracy grade		
		H	高精度 High accuracy	
R		常规 General Precision		

INTRODUCTION
Product

TDF-盘式力传感器
Disc-type Force Sensor



受力方向



量程 Range (t)	ΦA	ΦB	H	H1	ΦC	M	SR
0.5-5	51	10	25	19.5	42	M5	25
6-10	88	18	47	42	72	M6	150
15-30	127	25	70	65	90	M10	60

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)

产品特点

Product Features

- ◆合金钢、不锈钢等多种材料弹性元件可选, 测量精准
- ◆对弯矩和侧向力不敏感, 抗偏载好
- ◆优越的抗串扰性
- ◆精度高、强度好、稳定性强
- ◆可做双路冗余设计

- ◆Alloy steel, stainless steel and other elastic material are optional with high strain accuracy.
- ◆Insensitive to bending moment and lateral force with good anti-bias load
- ◆Excellent cross talk resistance
- ◆High precision, High strength, Strong stability.
- ◆Providing dual-channel redundancy.

应用行业

Application Industry

- ◆高空作业车等工业设备称重平台
- ◆Hydraulic aerial cage and other weighing platform for industrial equipment.



技术参数 (特殊需求可定制)

Technical Specifications (Customized)

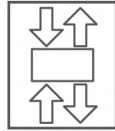
常规 Routine Test	参数值 Spec		单位 Unit
额定载荷 Rated Load	0-30		T
安全载荷 Safe Load	120		%F.S.
极限载荷 Limited Load	150		%F.S.
综合精度 Overall Accuracy	±0.1		%F.S.
零点温漂 Zero Temp Drift	≤±0.05		%F.S./10°C
蠕变 Creep (30分钟 Min)	≤±0.02		%F.S.
使用温度 Operating temp.	-30 ~ 80		°C
供电电压 Supply Voltage	9-36(毫伏输出时为5-12) (Millivolt output 5-12)		VDC
灵敏度 Sensitivity	(1.0-2.0)±0.1		mv/v
输入阻抗 Input impedance	380	750	±15Ω
输出阻抗 Output impedance Resistance	350	700	±3Ω
零点输出 Zero Output	≤1		%F.S.
绝缘电阻 Insulation Resistance	≥5000		MΩ(50VDC)
防护等级 Protection grade	IP67		

选型表

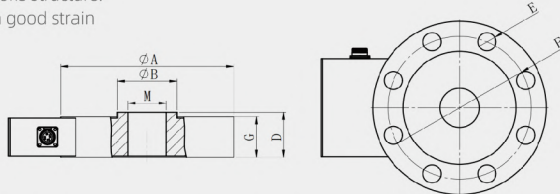
Type Selection List

TDF	盘式力传感器 Disc-type Force Sensor					
代码Code	出线方式 Outgoing Wiring Method					
X	航空插头出线 Aviation connector					
Y	电缆接头直接出线 Cable connector					
D	德驰连接器 Deutsch connector					
O	其它 Other Connector					
	代码Code	输出方式 Output Method				
	A	4-20mA				
	V1	0.5-4.5V				
	V2	mv				
	V3	0-10V				
	V4	0-5V				
	W1	无线Wireless 2.4G				
	C	CAN				
	R1	485				
	R2	232				
	代码Code	量程 Range				
	T	0-30T				
		代码Code	受力方向 Force Direction			
		P	单压 One-way pressing			
		代码Code	材质 Material			
		B	不锈钢 Stainless steel			
		H	合金钢 Alloy steel			
		O	其它 Other material			
		代码Code	精度等级 Accuracy Grade			
		H	高精度 High accuracy			
R	常规 General Precision					

TDW-轮辐式力传感器
Spoke-type Force Sensor



受力方向



- ◆拉压式称重传感器、轮辐式结构
- ◆合金钢或不锈钢等多种材料弹性元件可选, 应变精准
- ◆树脂密封, 性能可靠
- ◆低外形、抗偏载、精度高

- ◆Drawing and pressing force loading sensor with hub-spoke structure.
- ◆Stainless steel, alloy steel and other elastic material with good strain accuracy, all material are optional.
- ◆Sealed with resin with performance reliability.
- ◆Low overall dimension, anti-bias load, high precision.

- ◆料斗秤等各种称重设备
- ◆港口机械
- ◆石油机械
- ◆液压油缸
- ◆实验测力设备
(载荷疲劳试验设备等)
- ◆铁道衡
- ◆工程机械 (起重机展臂支撑腿受力测量等)

- ◆Hopper scale and other weighing equipment
- ◆Habour Machinery
- ◆Petroleum Machinery
- ◆Hydraulic cylinder
- ◆Experimental force measuring equipment
(Load fatigue testmachine, and the like)
- ◆Rail weighbridge
- ◆Construction Machinery (Measuring the force bearing of the legs of Hoisting machinery)



外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)

量程 Range (T)	A	B	F	D	G	M	E
1,2	106	30	92	32	30	M20×2-6H 通孔 through-hole	4-M8 通孔 through-hole
3,5	134	40	112	42	36	M30×2-6H 通孔 through-hole	4-M8 通孔 through-hole
10,15	172	54	144	51	45	M36×2-6H 通孔 through-hole	4-M12 通孔 through-hole
20	198	65	160	55	49	M45×3-6H 通孔 through-hole	4-M16 通孔 through-hole
30	208	70	170	55	49	M48×3-6H 通孔 through-hole	4-M20 通孔 through-hole
40	230	80	190	60	54	M56×3-6H 通孔 through-hole	4-M24 通孔 through-hole
50	254	90	210	62	56	M64×3-6H 通孔 through-hole	4-M30 通孔 through-hole
100	330	130	280	98	92	M90×4-6H 通孔 through-hole	4-M32 通孔 through-hole
...	外形尺寸可定制 Outline Dimension (Customized)						

技术参数 (特殊需求可定制)

Technical Specifications (Customized)

常规 Routine Test	参数值 Spec		单位 Unit
额定载荷 Rated Load	0 - 100		T
安全载荷 Safe Load	120		%F.S.
极限载荷 Limited Load	150		%F.S.
非线性误差 Non-linear Error	±0.05		%F.S.
滞后误差 Lag Error	±0.05		%F.S.
重复性误差 Repeatability Error	±0.05		%F.S.
零点温漂 Temp Zero Drift	≤±0.05		%F.S./10°C
蠕变 Creep (30分钟 Min)	≤±0.02		%F.S.
温补范围 Temp.Compensation Range	-20 ~ 60		°C
使用温度 Operating Temp	-30 ~ 80		°C
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) (Millivolt output 5-12)		VDC
灵敏度 Sensitivity	1.5	2	±0.05mv/v
输入阻抗 Input impedance	750		±15Ω
输出阻抗 Output impedance Resistance	700		±3Ω
零点输出 Zero output	≤1		%F.S.
绝缘电阻 Insulation Resistance	≥5000		MΩ
偏心率 Eccentricity	±0.25		%
侧向力影响 Lateral Force Influence	±0.2		%
标定方式 Calibrate	拉, 压 drawing and Pressing		
防护等级 Protection Grade	IP67(IP68等级可选 IP68 Protection Grade Optional)		

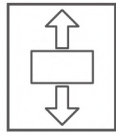
选型表

Type Selection List

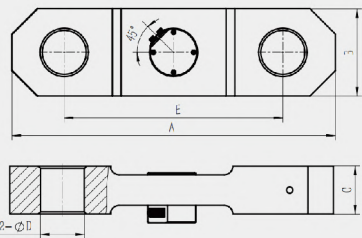
TDW	轮辐式力传感器 Spoke-type Force Sensor				
代码Code	出线方式 Outgoing Wiring Method				
	X	航空插头出线 Aviation connector			
Y	电缆接头直接出线 Cable connector				
O	其它 Other Connector				
代码Code	输出方式 Output Method				
	A	4-20mA			
	V1	0.5-4.5V			
	V2	mv			
	V3	0-10V			
	V4	0-5V			
	W1	无线Wireless 2.4G			
	C	CAN			
	R1	485			
	R2	232			
	代码Code	量程 Range			
		T	0-100T(其它量程可选 Range ability optional)		
		代码Code	受力方向 Force Direction		
		TP	拉压双向 Drawing and pressing in two directions		
T		单拉 One-way drawing			
P		单压 One-way pressing			
代码Code		材质 Material			
		B	不锈钢 Stainless steel		
		H	合金钢 Alloy steel		
		O	其它 Other material		
代码Code		精度等级 Accuracy Grade			
		H	高精度 High accuracy		
	R	常规 General Precision			

INTRODUCTION
Product

TDE-板环式力传感器
Annular-plate Tpye Force Sensor



受力方向



额定载荷 Rated Load (T)	A	B	C	D	E
10t	280	90	34	50	183
20t	300	108	40	52	180
30t	320	138	40	60	186
50t	388	146	60	72	232
100t	508	188	90	90	302
160t	656	220	100	110	386
200t	796	250	100	110	486
...	外形尺寸可定制 Outline Dimension can be customized.				

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)

产品特点

Product Features

- ◆双向承载、多量程选择
- ◆合金钢、不锈钢等多种材料弹性元件可选，应变精准
- ◆树脂密封，性能可靠
- ◆可内置放大器、可冗余
- ◆高精度、高稳定性、高保护等级
- ◆Bi-directional force bearing and multi-Rangeabilities optional.
- ◆Stainless steel, alloy steel and other elastic material with strain accuracy, all material are optional.
- ◆Sealed with resin with performance reliability.
- ◆Built-in amplifier provide redundancy.
- ◆High precision, high stability, high protection class.

应用行业

Application Industry

- ◆履带式起重机等工程机械
- ◆电力设备
- ◆矿山设备
- ◆Caterpillar crane and other Construction Machinery
- ◆Electrical equipment
- ◆Mining Machinery



技术参数 (特殊需求可定制)

Technical Specifications (Customized)

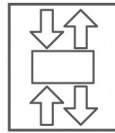
常规 Routine Test	参数值 Spec		单位 Unit
额定载荷 Rated Load	0 - 200(其它量程可选) other ranges optional)		T
安全载荷 Safe Load	120		%F.S.
极限载荷 Limited Load	150		%F.S.
非线性误差 Non-linear Error	±0.1	±0.3	%F.S.
滞后误差 Lag Error	±0.1	±0.3	%F.S.
重复性误差 Repeatability Error	±0.1	±0.3	%F.S.
零点温漂 Temp Zero Drift	≤±0.05		%F.S./10°C
蠕变 Creep (30分钟 Min)	≤±0.02		%F.S.
温补范围 Temp.Compensation Range	-20 ~ 60		°C
使用温度 Operating Temp	-30 ~ 80		°C
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) 9-32 (Millivolt output 5-12)		VDC
灵敏度 Sensitivity	1.5	2	±0.05mv/v
输入阻抗 Input impedance	370	780	±15Ω
输出阻抗 Output impedance Resistance	350	700	±3Ω
零点输出 Zero output	≤1		%F.S.
绝缘电阻 Insulation Resistance	≥5000		MΩ (50VDC) *
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional)		

选型表

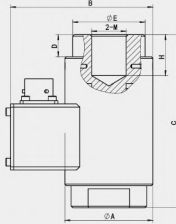
Type Selection List

TDE	板环式力传感器 Annular-plate Tpye Force Sensor			
代码Code	出线方式 Outgoing Wiring Method			
X	航空插头出线 Aviation connector			
Y	电缆接头直接出线 Cable connector			
D	德驰连接器 Deutsch connector			
O	其它 Other Connector			
代码Code	输出方式 Output Method			
A	4-20mA			
V1	0.5-4.5V			
V2	mv			
V3	0-10V			
V4	0-5V			
W1	无线Wireless 2.4G			
C	CAN			
R1	485			
R2	232			
代码Code	量程 Range			
T	0 - 200T(其它量程可选 Range Ability Optional)			
代码Code	受力方向 Force Direction			
TP	拉压双向 Drawing and pressing in two directions			
T	单拉 One-way drawing			
P	单压 One-way pressing			
代码Code	材质 Material			
B	不锈钢 Stainless steel			
H	合金钢 Alloy steel			
O	其它 Other material			
代码Code	精度等级 Accuracy Grade			
H	高精度 High accuracy			
R	常规 General Precision			

TDC1-柱式力传感器
Cylindrical-type Force Sensor



受力方向



量程 Range (T)	A	B	C	D	E	2-M	H
0.1-1	56	95	120	16	25	M16X1.5-6H	20
1.5-3	56	95	110	12	32	M24X2-6H	23
5,8	78	115	130	10	45	M30X2-6H	25
10,15	88	125	150	14	53	M36X2-6H	30
20,25	98	140	186	14	63	M45X3-6H	35
30	108	147	186	21	72	M48X3-6H	40
40,50	118	162	230	27	85	M56X3-6H	50
...	外形尺寸可定制 Outside dimensions customizid						

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)

产品特点

Product Features

- ◆拉压式力传感器
- ◆合金钢、不锈钢等多种材料弹性元件可选，应变精准
- ◆树脂密封、表面镀铬处理
- ◆用于静态、动态拉压力测量（包含疲劳测试）
- ◆可内置放大器
- ◆精度高、强度好、稳定性强、可冗余
- ◆For sensing both pulling and pressing force.
- ◆Stainless steel, alloy steel and other elastic material are optional with high strain accuracy.
- ◆Resin seal, chorome-plated finished surface.
- ◆For the static and dynamic pulling force measuring test (including fatigue test)
- ◆Built-in amplifier
- ◆High accuracy,high strenght, good stability and providing redundancy.

应用行业

Application Industry

- ◆石油机械
- ◆环保机械
- ◆液压油缸拉压力测量
- ◆航空航天等行业用疲劳试验设备
- ◆制药机械医疗器械
- ◆电力设备
- ◆工程机械叉车
- ◆冶金轧钢设备
- ◆Petroleum extraction machinery
- ◆Environmental Protection Equipment
- ◆Tensile Test for the Hydraulic cylinder
- ◆Fatigue test used in the Aerospace Industry
- ◆Pharmaceutical and Madical equipment
- ◆Electrical Equipment
- ◆Fork-lift truck used in the civil construction.
- ◆Metallugrical and Steel Roofling



技术参数 (特殊需求可定制)

Technical Specifications (Customized)

常规 Routine Test	参数值 Spec		单位 Unit
额定载荷 Rated Load	0 - 50		T
安全载荷 Safe Load	120		%F.S.
极限载荷 Limited Load	150		%F.S.
非线性误差 Non-linear Error	±0.05	±0.1	%F.S.
滞后误差 Lag Error	±0.05	±0.1	%F.S.
重复性误差 Repeatability Error	±0.05	±0.1	%F.S.
零点温漂 Zero Drift	≤±0.05		%F.S./10°C
蠕变 Creep (30分钟 Min)	≤±0.02		%F.S.
温补范围 Temp.Compensation Range	-20 ~ 60		°C
使用温度 Operating Temp	-30 ~ 80		°C
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) (Millivolt output 5-12)		VDC
灵敏度 Sensitivity	1 - 2		mv/v
输入阻抗 Input impedance	380	750	±15Ω
输出阻抗 Output impedance Resistance	350	700	±3Ω
零点输出 Zero output	≤1		%F.S.
零点平衡 Null balance	≤1		%F.S.
绝缘电阻 Insulation Resistance	≥5000		MΩ(50VDC)
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional		

选型表

Type Selection List

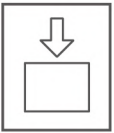
TDC1	柱式力传感器 Cylindrical-type Force Sensor			
代码Code	出线方式 Outgoing Wiring Method			
X	航空插头出线 Aviation connector			
Y	电缆接头直接出线 Cable connector			
O	其它 Other Connector			
代码Code	输出方式 Output Method			
A	4-20mA			
V1	0.5-4.5V			
V2	mv			
V3	0-10V			
V4	0-5V			
W1	无线Wireless 2.4G			
C	CAN协议			
R1	485			
R2	232			
代码Code	量程 Span			
T	0-50T(其它量程可选 Range Ability Optional)			
代码Code	受力方向 Force Direction			
TP	拉压双向 Drawing and pressing in two directions			
T	单拉 One-way drawing			
P	单压 One-way pressing			
代码Code	材质 Material			
B	不锈钢 Stainless steel			
H	合金钢 Alloy steel			
O	其它 Other material			
代码Code	精度等级 Accuracy Grade			
H	高精度 High accuracy			
R	常规 General Precision			

P

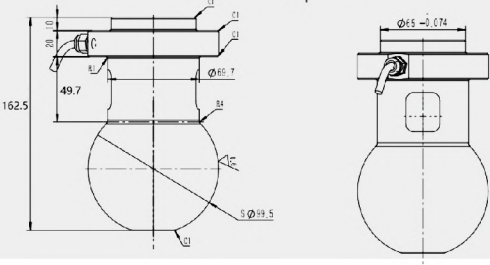
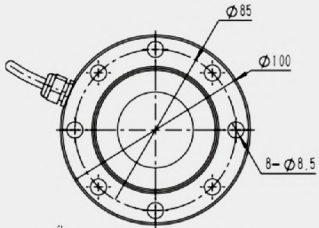
INTRODUCTION
Product

TDC2-支撑力传感器

Supporting-strength Force Sensor



受力方向



Reference Outline Dimension
(Customized)
外形尺寸参考
(尺寸可按需定制)

产品特点

Product Features

- ◆抗偏载结构，无惧？

◆与支腿螺栓连接，简单可靠

◆合金钢、不锈钢等多种材料弹性元件可选，应变精准

◆树脂密封、表面镀铬处理

◆精度高、强度好、稳定性强、可冗余
- ◆Anti-biased load.

◆Bolted connection with the supporting legs, simple fitting but secure.

◆Alloy steel, stainless steel and other elastic material are optional with high strain accuracy.

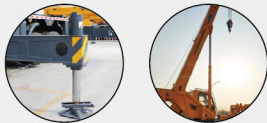
◆Resin seal, chorome-plated finished surface

◆High precision, High strength,Strong stability,Redundancy providing.

应用行业

Application Industry

- ◆高空作业车、高空消防车、泵车、起重机械等需要检测外伸支腿受力的设备
- ◆Hydraulic aerial cage,high altitude fire fighting truck,pump truck, lifting machines and other machinery which requires the testing the supporting force of the supporting legs.



技术参数（特殊需求可定制）

Technical Specifications (Customized)

常规 Routine Test	参数值 Spec		单位 Unit
额定载荷 Rated Load	0-30(可按需定制 customized)		T
安全载荷 Safe Load	150		%F.S.
极限载荷 Limited Load	200		%F.S.
非线性误差 Non-linear Error	±0.05	±0.1	%F.S.
滞后误差 Lag Error	±0.05	±0.1	%F.S.
重复性误差 Repeatability Error	±0.05	±0.1	%F.S.
零点温漂 Zero Drift	≤±0.05		%F.S./10℃
蠕变 Creep（30分钟 Min）	≤±0.02		%F.S.
温补范围 Temp.Compensation Range	-20 ~ 60		℃
使用温度 Operating Temp	-30 ~ 80		℃
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) (Millivolt output 5-12)		VDC
灵敏度 Sensitivity	1 - 2		mv/v
输入阻抗 Input impedance	380	750	±15Ω
输出阻抗 Output impedance Resistance	350	700	±3Ω
零点输出 Zero output	≤1		%F.S.
零点平衡 Null balance	≤1		%F.S.
绝缘电阻 Insulation Resistance	≥5000		MΩ(50VDC)
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional		

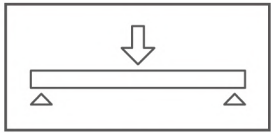
选型表

Type Selection List

TDC2	支撑力传感器 Supporting-strength Force Sensor			
代码Code	出线方式 Outgoing Wiring Method			
	X	航空插头出线 Aviation connector		
	Y	电缆接头直接出线 Cable connector		
	O	其它 Other Connector		
	代码Code	输出方式 Output Method		
	A	4-20mA		
	V1	0.5-4.5V		
	V2	mv		
	V3	0-10V		
	V4	0-5V		
	W1	无线Wireless 2.4G		
	C	CAN		
	R1	485		
	R2	232		
	代码Code	量程 Range		
	T	0-30T (其它量程可选 Range Ability Optional)		
	代码Code	受力方向 Force Direction		
	TP	拉压双向 Drawing and pressing in two directions		
	T	单拉 One-way drawing		
	P	单压 One-way pressing		
	代码Code	材质 Material		
	B	不锈钢 Stainless steel		
	H	合金钢 Alloy steel		
O	其它 Other material			
	代码Code	精度等级 Accuracy Grade		
	H	高精度 High accuracy		
	R	常规 General Precision		

TDB-桥式力传感器

Bridge-structure Force Sensor



受力方向



- ◆桥式弯曲梁结构、压向承载Bend

◆不锈钢、合金钢等多种材料弹性元件可选，应变精准

◆树脂密封，性能可靠

◆可内置放大器，高稳定性

- ◆beam structure with force press down.

◆Stainless steel, alloy steel and other elastic material with strain accuracy, all material are optional.

◆Sealed with resin with performance reliability.

◆Built-in amplifier with high stability.

- ◆车载秤

◆Vehicle-mounted Scale

- ◆Vehicle-mounted Scale

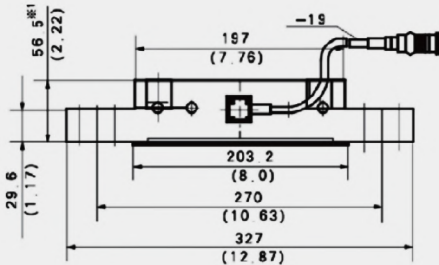


应用行业

Application Industry

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)



技术参数（特殊需求可定制）

Technical Specifications (Customized)

常规 Routine Test	参数值 Spec		单位 Unit
额定载荷 Rated Load	5-20		T
安全载荷 Safe Load	150		%F.S.
极限载荷 Limited Load	250		%F.S.
非线性误差 Non-linear Error	±0.5		%F.S.
滞后误差 Lag Error	±0.5		%F.S.
重复性误差 Repeatability Error	±0.5		%F.S.
零点温漂 Temp Zero Drift	≤±0.05		%F.S./10℃
蠕变 Creep（30分钟 Min）	≤±0.02		%F.S.
温补范围 Temp.Compensation Range	-10 ~ 40		℃
使用温度 Operating Temp	-30 ~ 80		℃
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) (Millivolt output 5-12)		VDC
灵敏度 Sensitivity	1.5	2	±0.05mv/v
输入阻抗 Input impedance	380	780	±15Ω
输出阻抗 Output impedance	350	700	±3Ω
零点输出 Zero output	≤1		%F.S.
绝缘电阻 Insulation Resistance	≥5000		MΩ(50VDC)
电流消耗 Current drain	<50		mA
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional		

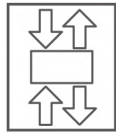
选型表

Type Selection List

TDB	桥式力传感器 Bridge-structure Force Sensor			
代码Code	出线方式 Outgoing Wiring Method			
	X	航空插头出线 Aviation connector		
	Y	电缆接头直接出线 Cable connector		
	D	德驰连接器 Deutsch connector		
	O	其它 Other Connector		
代码Code	输出方式 Output Method			
	A	4-20mA		
	V1	0.5-4.5V		
	V2	mv		
	V3	0-10V		
	V4	0-5V		
	W1	无线Wireless 2.4G		
	C	CAN		
	R1	485		
	R2	232		
	代码Code	量程 Range		
		T	5-20T	
	代码Code	受力方向 Force Direction		
		T	单拉 One-way drawing	
	P	单压 One-way pressing		
		代码Code	材质 Material	
	B		不锈钢 Stainless steel	
	H		合金钢 Alloy steel	
	O		其它 Other material	
	代码Code	精度等级 Accuracy Grade		
H		高精度 High accuracy		
R		常规 General Precision		

INTRODUCTION
Product

TDS-S型力传感器
S-Shape Force Sensor



受力方向



产品特点

Product Features

- ◆拉压式称重传感器
- ◆合金钢或不锈钢等多种材料弹性元件可选, 应变精准
- ◆表面镀铬处理
- ◆抗偏载、精度高、强度好
- ◆拉压输出对称性好

- ◆Pulling and pressing force weighing sensor
- ◆Stainless steel, alloy steel and other elastic material with good strain accuracy, all material are optional.
- ◆Chorome-plated finished surface
- ◆Anti-bias load, high precision and high strength
- ◆Good symmetry for the output of pulling and pressing force

应用行业

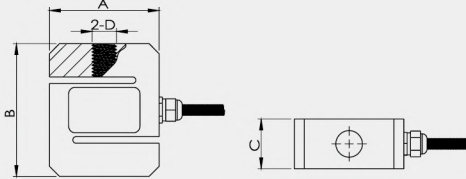
Application Industry

- ◆料斗秤等各种称重设备
- ◆船舶设备
- ◆实验测力设备
- ◆冶金轧钢设备
- ◆搅拌站
- ◆电力设备
- ◆Hopper scale and other weighing equipment
- ◆Ship Equipment
- ◆Testing force machine
- ◆Metallurgical and steel rolling equipment
- ◆Agitating lorry
- ◆Electrical equipment



外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)



量程 (kg) Span	A	B	C	D
10 --100	54	34	16	M10
100 - 1000	66	80	28	M16X1.5
1500 - 5000	72	80	32	M20X2
10000	96	96	56	M27X2
20000	120	130	66	M36X2
25000	140	160	70	M45X3

技术参数 (特殊需求可定制)

Technical Specifications (Customized)

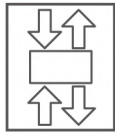
常规 Routine Test	参数值 Spec	单位 Unit
额定载荷 Rated Load	0-25000	kg
安全载荷 Safe Load	120	%F.S.
极限载荷 Limited Load	150	%F.S.
非线性误差 Non-linear Error	±0.05	%F.S.
滞后误差 Lag Error	±0.05	%F.S.
重复性误差 Repeatability Error	±0.05	%F.S.
零点温漂 Zero Drift	≤±0.05	%F.S./10°C
蠕变 Creep (30分钟 Min)	≤±0.02	%F.S.
温补范围 Temp.Compensation Range	-20 - 60	°C
使用温度 Operating Temp	-30 - 80	°C
供电电压 Supply Voltage	9-32(毫伏输出时为5-12) (Millivolt output 5-12)	VDC
灵敏度 Sensitivity	1.5 2	±0.05mv/v
输入阻抗 Input impedance	380	±15Ω
输出阻抗 Output impedance Resistance	350	±3Ω
零点输出 Zero output	≤1	%F.S.
绝缘电阻 Insulation Resistance	≥5000	MΩ(50VDC)
防护等级 Protection Grade	IP67、IP68等级可选 IP68 Protection Grade Optional	

选型表

Type Selection List

S-shape Force Sensor				
代码Code	出线方式 Outgoing Wiring Method			
X	航空插头出线 Aviation connector			
Y	电缆接头直接出线 Cable connector			
O	其它 Other Connector			
代码Code	输出方式 Output Method			
A	4-20mA			
V1	0.5-4.5V			
V2	mv			
V3	0-10V			
V4	0-5V			
C	CAN			
R1	485			
R2	232			
代码Code	量程 Range			
T	0-25000kg			
代码Code	受力方向 Force Direction			
TP	拉压双向 Drawing and pressing in two directions			
T	单拉 One-way drawing			
P	单压 One-way pressing			
代码Code	材质 Material			
B	不锈钢 Stainless steel			
H	合金钢 Alloy steel			
O	其它 Other material			
代码Code	精度等级 Accuracy Grade			
H	高精度 High accuracy			
R	常规 General Precision			

TDR-叉装车力限器
Force Limiter of Forklift Truck



受力方向



- ◆高灵敏度, 精准检测
- ◆传感器防护等级达IP67、自带温补, 环境适应性强
- ◆控制主机接口丰富, 可匹配4-20mA、5-4.5V、CAN三种形式传感器
- ◆操作简单, 报警醒目

- ◆High Sensitivity and Accurate Measurement
- ◆Protection Class reached IP57, Has its own function of temperature-compensated system, High enironmental adaptation.
- ◆Abundant interface of engine control has enabled to match three type of sensors as 4-20mA、5-4.5V、CAN
- ◆Simple to operate, high-lighting alarming.

- ◆伸缩臂叉车过载保护

- ◆Overload protection for the forks of telescopic boom

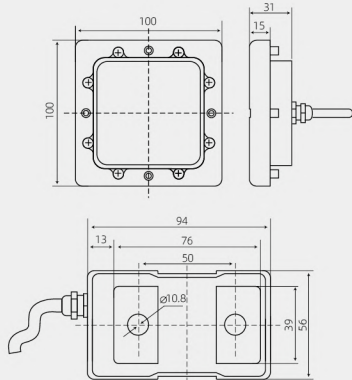


应用行业

Application Industry

外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)



技术参数 (特殊需求可定制)

Technical Specifications (Customized)

常规 Routine Test	参数值 Spec	单位 Unit
输出信号 OutputSignal	1(line)路CAN or或 1(line)路4-20mA or或2(line)路4-20mA	/
非线性误差 Non-linear Error	±0.05	%F.S.
滞后误差 Lag Error	±0.05	%F.S.
重复性误差 Repeatability Error	±0.05	%F.S.
零点温漂 Temp Zero Drift	≤±0.05	%F.S./10°C
蠕变 Creep (30分钟 Min)	≤±0.02	%F.S.
工作温度 Operating Temp	-40~+85	°C
工作电压 Operating Voltage	DC9~36	V
防护等级 Protection Grade	IP67、IP68等级可选 IP67、IP68 Protection Grade Optional	/
震动 Shaking force	EN 60068-2-6: 10 .. 500 Hz,	/
冲击 Impact force	EN 60068-2-27: 25 g , 6 ms , 4000 shocks	/
盐雾 Salt Spray	EN60068-2-11中性盐雾 (neutral salt spray) 96h	/
EMC	EN61000-6-2, - 4	/
最小可识别载重 Min.Recognizable loads	10kg (最大可识别载重取决于叉车 安全情况, 传感器无此上限) 10kg (Max.recognizable loads depends on the fail-safe condition of the truck, as the sensor has no such upper limite value of the max load.	/

选型表

Type Selection List

叉装车力限器 Force Limiter of Forklift Truck				
代码Code	出线方式 Outgoing Wiring Method			
X	航空插头出线 Aviation connector			
Y	电缆接头直接出线 Cable connector			
D	德驰连接器 Deutsch connector			
O	其它 Other Connector			
代码Code	输出方式 Output Method			
A	4-20mA			
V1	0.5-4.5V			
V2	mv			
C	CAN			
代码Code	量程 Range			
T	10-500T			
代码Code	受力方向 Force Direction			
T	单拉 One-way drawing			
P	单压 One-way pressing			
代码Code	材质 Material			
B	不锈钢 Stainless steel			
H	合金钢 Alloy steel			
O	其它 Other material			
代码Code	精度等级 Accuracy Grade			
H	高精度 High accuracy			
R	常规 General Precision			

P

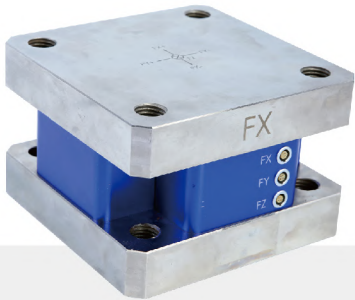
INTRODUCTION
Product

TDD-三维力传感器

3-Dimensional Force Sensor



受力方向



产品特点

- ◆合金钢、不锈钢等多种材料弹性元件可选，应变精准

◆对弯矩和侧向力不敏感，抗偏载好

◆优越的抗串扰性

◆精度高、强度好、稳定性强
- ◆Alloy steel, stainless steel and other elastic material are optional with high strain accuracy.

◆Insensitive to bending moment and lateral force with good anti-bias load.

◆Excellent cross talk resistance.

◆High precision, High strength, Strong stability.

应用行业

- ◆航空航天飞机起落架试验平台

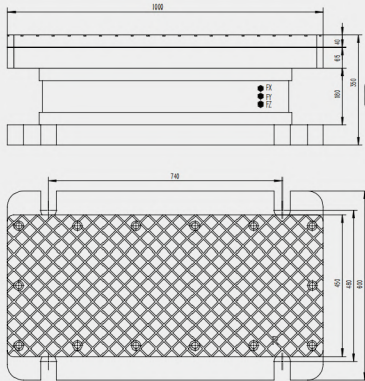
◆试验设备
- ◆Experimental platform of the undercarriage of the aerospace aircraft.

◆Testing Equipment



外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)



技术参数 (特殊需求可定制)

常规 Routine Test		参数值 Spec	单位 Unit
额定载荷 Rated Load		0 ~ 20	T
安全载荷 Safe Load		120	%F.S.
极限载荷 Limited Load		150	%F.S.
非线性误差 Non-linear Error		±0.05	±0.3 %F.S.
滞后误差 Lag Error		±0.05	±0.3 %F.S.
重复性误差 Repeatability Error		±0.05	±0.3 %F.S.
杠杆臂的测量影响 Measuring impact of the Lever arm		600mm: < +/-0.5%	
额定容量下的挠度 Deflection of the rated capacity		< 0.3	mm
零点温漂 Zero Drift		≤±0.05	%F.S./10℃
蠕变 Creep (30分钟 Min)		≤±0.02	%F.S.
温补范围 Temp.Compensation Range		-20 ~ 60	℃
使用温度 Operating Temp		-30 ~ 80	℃
供电电压 Supply Voltage		9-32(毫伏输出时为5-12) (Millivolt output 5-12)	VDC
灵敏度 Sensitivity		1 ~ 2	mv/v
输入阻抗 Input impedance		380 750	±15Ω
输出阻抗 Output impedance Resistance		350 700	±3Ω
零点输出 Zero output		≤1	%F.S.
零点平衡 Null balance		≤1	%F.S.
绝缘电阻 Insulation Resistance		≥5000	MΩ(50VDC)
防护等级 Protection Grade		IP67、IP68等级可选 IP68 Protection Grade Optional	

选型表

Type Selection List

TDD 三维力传感器 3-dimensional Force Sensor	
代码Code	出线方式 Outgoing Wiring Method
X	航空插头出线 Aviation connector
Y	电缆接头直接出线 Cable connector
D	德驰连接器 Deutsch connector
O	其它 Other Connector
代码Code	输出方式 Output Method
A	4-20mA
V1	0.5-4.5V
V2	mv
V3	0-10V
V4	0-5V
W1	无线 Wireless 2.4G
C	CAN
R1	485
R2	232
代码Code	量程 Range
T	0-20T
代码Code	受力方向 Force Direction
P	单压 One-way pressing
代码Code	材质 Material
B	不锈钢 Stainless steel
H	合金钢 Alloy steel
O	其它 Other material
代码Code	精度等级 Accuracy Grade
H	高精度 High accuracy
R	常规 General Precision

产品特点

- ◆压向承载式力传感器

◆不锈钢、合金钢等多种材料弹性元件可选，应变精准

◆胶封，多梁结构，性能可靠

◆平台安全称重专用传感器

◆冗余设计，可靠性

◆强度好，稳定性强

◆三维原理设计抗偏载能力更强
- ◆Compressing force from side.

◆Stainless steel, alloy steel and other elastic material are optional with high strain accuracy.

◆Glue sealing, Multi-beam structure,Dependable performance.

◆Dedicated device for safe weighing of the high-altitude platform.

◆Provide redundancy with reliability.

◆High strenght and good stability.

◆Three dimension design for better anti-biased loads.

应用行业

- ◆臂式高空作业平台

◆高空消防车辆

◆港口机械
- ◆Boom-type High-altitude Operation Platfrom

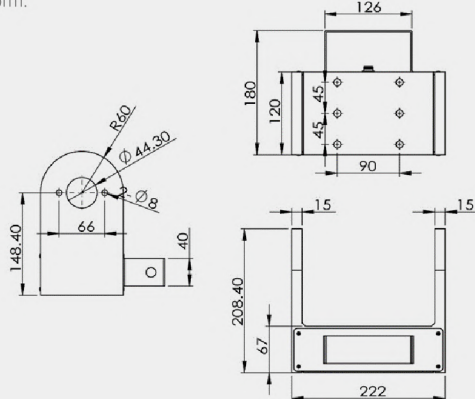
◆High-altitude Fire Fightin Truck

◆Port Facilities



外形尺寸参考
(尺寸可按需定制)

Reference Outline Dimension
(Customized)



技术参数 (特殊需求可定制)

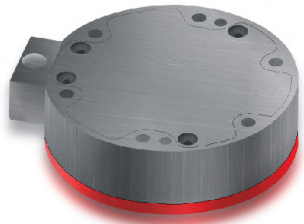
常规 Routine Test		参数值 Spec	单位 Unit
额定载荷 Rated Load		0 ~ 1.2	T
安全载荷 Safe Load		120	%F.S.
极限载荷 Limited Load		150	%F.S.
非线性误差 Non-linear Error		±0.05	±0.3 %F.S.
滞后误差 Lag Error		±0.05	±0.3 %F.S.
重复性误差 Repeatability Error		±0.05	±0.3 %F.S.
杠杆臂的测量影响 Measuring impact of the Lever arm		600mm: < +/-0.5%	
额定容量下的挠度 Deflection of the rated capacity		< 0.3	mm
零点温漂 Zero Drift		≤±0.05	%F.S./10℃
蠕变 Creep (30分钟 Min)		≤±0.02	%F.S.
温补范围 Temp.Compensation Range		-20 ~ 60	℃
使用温度 Operating Temp		-30 ~ 80	℃
供电电压 Supply Voltage		9-32(毫伏输出时为5-12) (Millivolt output 5-12)	VDC
灵敏度 Sensitivity		1 ~ 2	mv/v
输入阻抗 Input impedance		380 750	±15Ω
输出阻抗 Output impedance Resistance		350 700	±3Ω
零点输出 Zero output		≤1	%F.S.
绝缘电阻 Insulation Resistance		≥5000	MΩ (50VDC)
防护等级 Protection Grade		IP67、IP68等级可选 IP68 Protection Grade Optional	

选型表

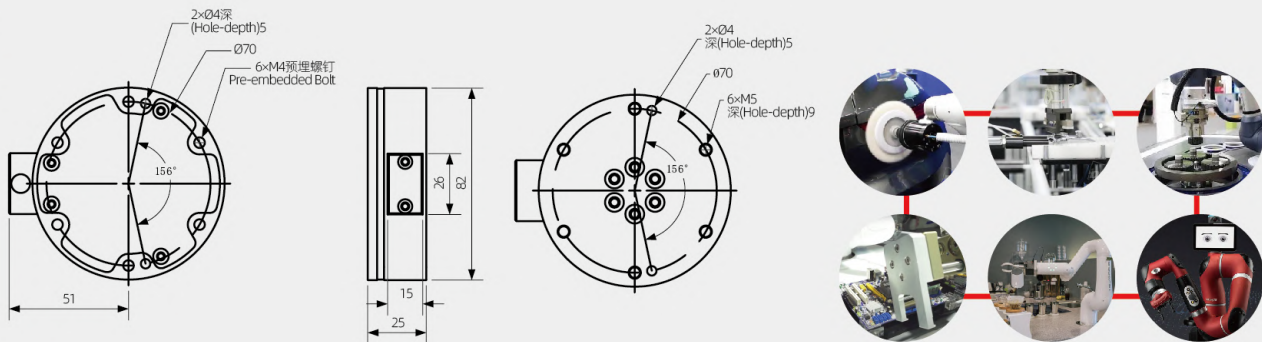
Type Selection List

TDM1 箱式力传感器 Concave-structure Force Sensor	
代码Code	出线方式 Outgoing Wiring Method
X	航空插头出线 Aviation connector
Y	电缆接头直接出线 Cable connector
O	其它 Other Connector
代码Code	输出方式 Output Method
A	4-20mA
V1	0.5-4.5V
V2	mv
V3	0-10V
V4	0-5V
W1	无线 2.4G
C	CAN
R1	485
R2	232
代码Code	量程 Range
T	0-1.2T
代码Code	受力方向 Force Direction
P	单压 One-way pressing
代码Code	材质 Material
B	不锈钢 Stainless steel
H	合金钢 Alloy steel
O	其它 Other material
代码Code	精度等级 Accuracy Grade
H	高精度 High accuracy
R	常规 General Precision

六维力传感器——**TDA1**
6-Dimension Force Sensor
Model: TDA1



产品图纸
Assembly Drawing

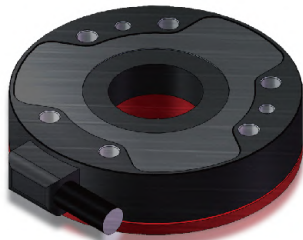


技术参数

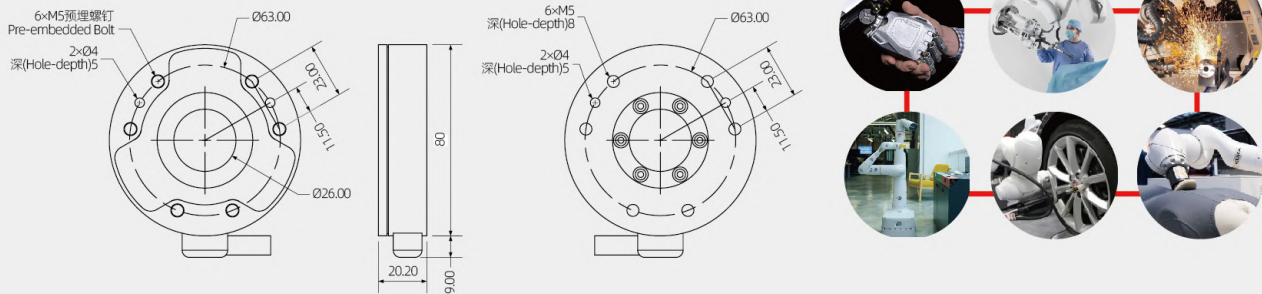
★Note: Including the measurement errors leading by the crosstalk, hysteresis, coupling and the zero drift.
★交叉干扰、带迟滞、耦合、零位漂移等导致的测量误差

技术指标 Routine Test			产品型号 Model					
			TDA1-50	TDA1-100	TDA1-200	TDA1-500	TDA1-800	TDA1-1500
量程 Range	Fx、Fy	N	50	100	200	500	800	1500
	Fz	N	100	200	400	1000	1600	3000
	Mx、My	Nm	3	5	10	20	32	60
	Mz	Nm	3	5	10	20	32	60
重复精度 Repeated Accuracy		%FS	0.5	0.5	0.5	0.5	0.5	0.5
准度 Accuracy Class		%FS	0.2	0.2	0.2	0.2	0.2	0.2
分辨率 Resolution		%FS	0.1	0.1	0.1	0.1	0.1	0.1
采样频率 Sampling Frequency		Hz	1000	1000	1000	1000	1000	1000
安全过载 Safe Overload		%FS	300	300	300	300	300	300
破坏极限 Limit of Rupture		%FS	500	500	500	500	500	500
外观尺寸 Outer Dimension		Mm	Φ 82*25	Φ 82*25	Φ 82*25	Φ 82*25	Φ 82*25	Φ 82*25
供电电压 Supply Voltage		VDC	9~36	9~36	9~36	9~36	9~36	9~36
通讯方式 Communication Mode			RS485/RS422/CAN/TCP/UDP/EtherCAT					
工作温度 Operating Temp		℃	0~60	0~60	0~60	0~60	0~60	0~60
防护等级 Protection Grade			IP65	IP65	IP65	IP65	IP65	IP65

六维力传感器——**TDA2**
6-Dimension Force Sensor
Model: TDA2



产品图纸
Assembly Drawing

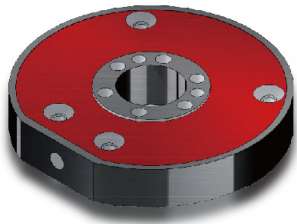


技术参数

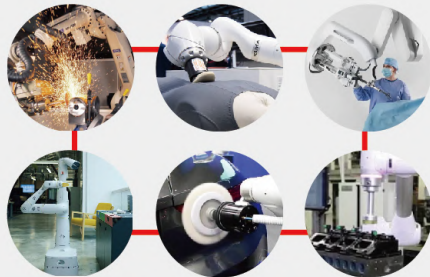
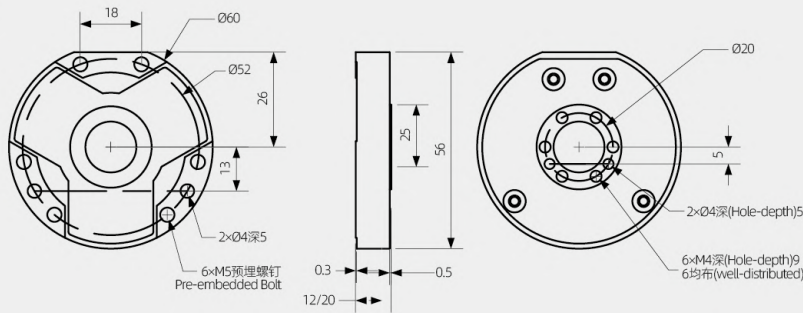
★Note: Including the measurement errors leading by the crosstalk, hysteresis, coupling and the zero drift.
★交叉干扰、带迟滞、耦合、零位漂移等导致的测量误差

技术指标 Routine Test			产品型号 Model					
			TDA2-50	TDA2-100	TDA2-200	TDA2-500	TDA2-800	TDA2-1500
量程 Range	Fx、Fy	N	50	100	200	500	800	1500
	Fz	N	100	200	400	1000	1600	3000
	Mx、My	Nm	3	5	10	20	32	60
	Mz	Nm	3	5	10	20	32	60
重复精度 Repeated Accuracy		%FS	0.1	0.1	0.1	0.1	0.1	0.1
准度 Accuracy Class		%FS	0.1	0.1	0.1	0.1	0.1	0.1
分辨率 Resolution		%FS	0.1	0.1	0.1	0.1	0.1	0.1
采样频率 Sampling Frequency		Hz	1000	1000	1000	1000	1000	1000
安全过载 Safe Overload		%FS	300	300	300	300	300	300
破坏极限 Limit of Rupture		%FS	500	500	500	500	500	500
外观尺寸 Outer Dimension		Mm	Φ80*22	Φ80*22	Φ80*22	Φ80*22	Φ80*22	Φ80*22
供电电压 Supply Voltage		VDC	9~36	9~36	9~36	9~36	9~36	9~36
通讯方式 Communication Mode			RS485/RS422/CAN/TCP/UDP/EtherCAT					
工作温度 Operating Temp		℃	0~60	0~60	0~60	0~60	0~60	0~60
防护等级 Protection Grade			IP65/IP67	IP65/IP67	IP65/IP67	IP65/IP67	IP65/IP67	IP65/IP67

超薄六维力传感器——**TDA3**
Ultra-thin 6-Dimension Force Sensor
Model: TDA3



产品图纸
Assembly Drawing

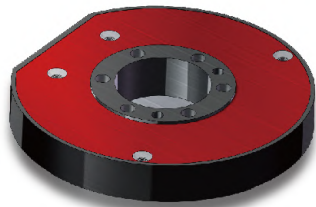


技术参数

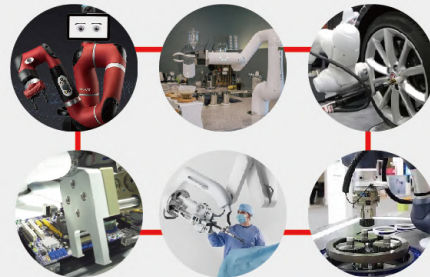
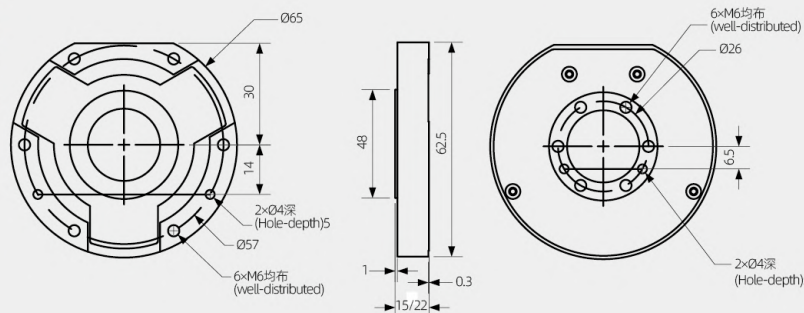
★Note: Including the measurement errors leading by the crosstalk, hysteresis, coupling and the zero drift.

技术指标 Routine Test			产品型号 Model		
			TDA3-150	TDA3-300	TDA3-500
量程 Range	Fx、Fy	N	150	300	500
	Fz	N	300	600	1000
	Mx、My	Nm	8	15	20
	Mz	Nm	8	15	20
重复精度 Repeated Accuracy		%FS	0.5	0.5	0.5
准度 Accuracy Class		%FS	0.5	0.5	0.5
分辨率 Resolution		%FS	0.1	0.1	0.1
采样频率 Sampling Frequency		Hz	1000	1000	1000
安全过载 Safe Overload		%FS	200	200	200
破坏极限 Limit of Rupture		%FS	300	300	300
外观尺寸 Outer Dimension		Mm	Φ 60*12/20	Φ 60*12/20	Φ 60*12/20
供电电压 Supply Voltage		VDC	9~36	9~36	9~36
通讯方式 Communication Mode			RS485/RS422/CAN/TCP/UDP/EtherCAT		
工作温度 Operating Temp		℃	0~60	0~60	0~60
防护等级 Protection Grade			IP65	IP65	IP65

超薄六维力传感器——**TDA4**
Ultra-thin 6-Dimension Force Sensor
Model: TDA4



产品图纸
Assembly Drawing



技术参数

★Note: Including the measurement errors leading by the crosstalk, hysteresis, coupling and the zero drift.

技术指标 Routine Test			产品型号 Model			
			TDA4-500	TDA4-800	TDA4-1000	TDA4-1600
量程 Range	Fx、Fy	N	500	800	1000	1600
	Fz	N	1000	1600	2000	3200
	Mx、My	Nm	20	30	40	55
	Mz	Nm	20	30	40	55
重复精度 Repeated Accuracy		%FS	0.5	0.5	0.5	0.5
准度 Accuracy Class		%FS	0.5	0.5	0.5	0.5
分辨率 Resolution		%FS	0.1	0.1	0.1	0.1
采样频率 Sampling Frequency		Hz	1000	1000	1000	1000
安全过载 Safe Overload		%FS	300	300	300	300
破坏极限 Limit of Rupture		%FS	500	500	500	500
外观尺寸 Outer Dimension		Mm	Φ 65*15/22	Φ 65*15/22	Φ 65*15/22	Φ 65*15/22
供电电压 Supply Voltage		VDC	9~36	9~36	9~36	9~36
通讯方式 Communication Mode			RS485/RS422/CAN/TCP/UDP/EtherCAT			
工作温度 Operating Temp		℃	0~60	0~60	0~60	0~60
防护等级 Protection Grade			IP65	IP65	IP65	IP65