压式传感器
Compression Load Cell

WEILI

XJC-Y02-3M

*外形和量程可根据客户的要求特殊定制
Dimension and capacity can be customized by request.
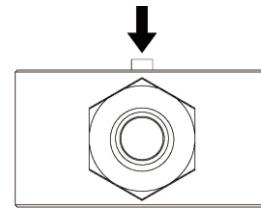
特点/Feature

★ XJC-Y02-3M采用高精度电阻应变式原理
★ 可满足 0–12T 范围内的力测量。
★ 磨合结构设计，压式承载，安装使用方便灵活。
★ 优质不锈钢材料
★ 体积小巧，外型美观
★ 响应频率高
★ XJC-Y02-3M adopts high–precision resistance strain principle
★ Meet force measurement in the range of 0–12T .
★ Capsule structural design, pressure–bearing, easy to install.
★ High quality stainless steel material
★ Small size, beautiful appearance
★ High response frequency
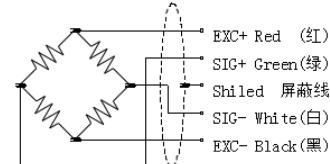
技术参数/Technical specifications

量程（可选） Capacity (Optional)	5kg,10kg,20kg,50kg,100kg,200kg,500kg,1t,2t,5t,10t,12t		不锈钢/Stainless steel
非线性 Nonlinearity	0.5% F.S.	输出灵敏度 Rated output	1.0–1.5mV/V
使用电压力 Recommended excitation	5–10VDC	最大使用电压 Maximum excitation	10V DC
防护等级 Protection class	IP65	温度补偿范围 Compensated temp range	$-10 \sim 40\,^{\circ}C$
滞后 Hysteresis	0.5% F.S.	工作温度范围 Operating temp range	$-20 \sim 80\,^{\circ}C$
重复性 Repeatability	0.1% F.S.	绝缘电阻 Insulation	$\geq 5000M\Omega/100VDC$
输入阻抗 Input impedance	$1000\pm100\Omega(750\pm50\Omega)$	输出阻抗 Output impedance	$1000\pm100\Omega(700\pm10\Omega)$
蠕变（30分钟） Creep (30min)	0.1% F.S.	温度灵敏度漂移 Temp effect on output	0.2% F.S./$10\,^{\circ}C$
零点输出 Zero balance	$\pm 2\%$ F.S.	零点温度漂移 Temp effect on zero	0.2% F.S./$10\,^{\circ}C$
安全超载 Safe load limit	150%	极限超载 Ultimate load limit	200%
电缆线尺寸 Cable size	$\varnothing2\times4m / \varnothing3\times4m$	使用寿命 Life	满量程100万次以上 Full scale more than 1 million times
电缆线连接方式 Cable connection	Ex + : 红 Red; Ex – : 黑 Black; Sig + : 绿 Green; Sig – : 白 White		

### 受力方向/Load direction

接线图/Wiring code

EXC+ Red (红)
SIG+ Green (绿)
Shiled 屏蔽线
SIG- White (白)
EXC- Black (黑)

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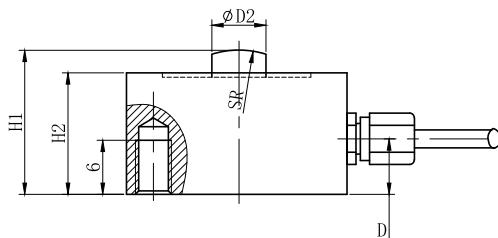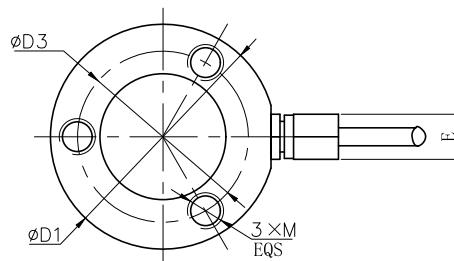
平面图/Plan (单位:mm)

量程/Capacity	D1	D2	D3	H1	H2	SR	D	M
5kg~100kg	20	2.5	15.5	12	10	10	4.5	M3
10kg~200kg	25	6.0	19.0	16	13.5	10	6.0	M4
100kg~1T	32	8.0	25.4	16	13.5	16	5.3	M5
2T~5T	38	11	30	20	16	20	5.2	M5
5T~12T	51	15	41	30	25	30	12	M8

主要应用/Applications

汽车，医疗，机器人，电子，机械设备，自动化设备等
Automotive, medical, robot, electronic, mechanical equipment, automation equipment, etc.
例如：按键手感度测试仪，冷热压机压力检测，机器人手抓力等安装空间小的力值检测领域
Force measurement in small space installation, such as feeling tester for keyboard switch, compression force measurement for hot and cold lamination machine, and grasping force measurement for robotic hands