

DYDW-003 多维力传感器
 Multi dimensional force sensor

产品综述 Product Reviews
特性:

拉压双向受力、结构紧凑、综合精度高、长期稳定性好、优质合金钢表面镀镍。

应用领域:

应用于机器人打磨, 焊接, 装配等关节力检测, 机器人触觉力示教, 疲劳试验机, 汽车耐久试验, 假人碰撞实验等

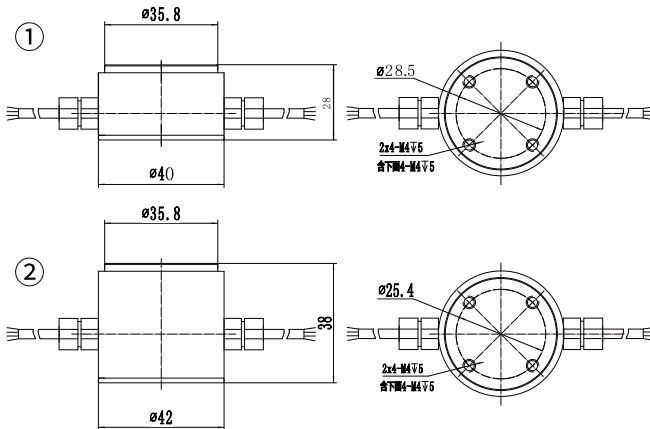
Characteristic:

Compact structure, easy to install, protection grade: IP65, used for torque measurement of static and non continuous rotation.

Application fields:

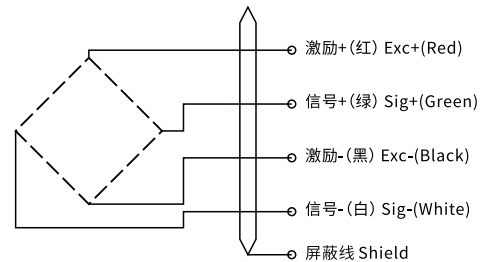
It is used in robot grinding, welding, assembly and other joint force detection, robot tactile force teaching, fatigue testing machine, automobile durability test, dummy collision test, etc.

外形尺寸 External Dimension

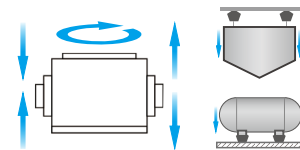


① 拉压力量程(N)	② 拉压力量程(N)
Fz 50 10 100 300	Fz 500 1000
扭力量程(N.m)	扭力量程(N.m)
M(N.m) 1 2 3	M(N.m) 5 10 30 50

传感器接线示意图 Sensor wiring diagram



传感器受力图 Force diagram of sensor


参数表 Parameters Table

量程 Capacity	1-50N.m 50-1000N	材质 Material	合金钢
输出灵敏度 Rated Output	2.0±10% mV/V	阻抗 Impedance	350 Ω
零点输出 Zero Balance	±2%F.S.	绝缘电阻 Insulation	≥5000M Ω /100VDC
非线性 Non-Linearity	0.1%F.S.	使用电压 Operating Temp Range	5-10v
滞后 Hysteresis	0.1%F.S.	工作温度范围 Operating Temp Range	-20-80°C
重复性 Repeatability	0.1%F.S.	安全过载 Safe Overload	120%
蠕变(30分钟) Creep(30min)	0.05%F.S.	极限过载 Maximum Overload	200%
温度灵敏度漂移 Temp Effect on Output	0.05%F.S./10°C	电缆线规格 Cable Specifications	ϕ 3x2m
零点温度漂移 Temp Effect on Zero	0.05%F.S./10°C	线缆极限拉力 Cable ultimate pull	10kg
响应频率 Response frequency	10kHz	TEDS可选	