



WDA型角度传感器采用高性能集成磁敏感元件，利用磁信号感应非接触的特点，配合微处理器（micro-computer）进行智能化信号处理制成新一代360°全量程（可定制90°、180°顺逆向可选）以及可编程选定测量区间角度传感器。该传感器具有分辨率高，温度稳定性好等突出优点，性价比优异。

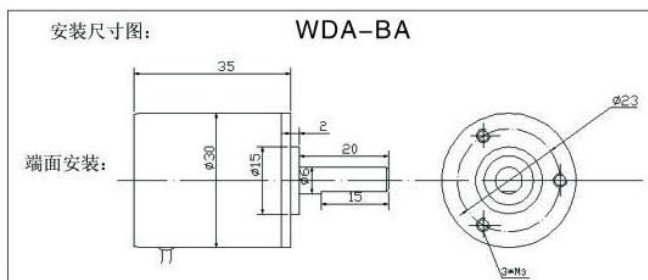
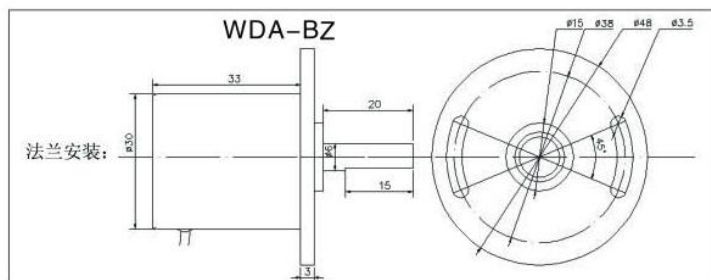
产品主要特点

- 无触点、无噪声、高灵敏度、高重复性、接近无限转动寿命、高频响应特性好；
- 环境适用性强，可用于水、油、汽、粉尘、高低温、振动冲击等恶劣工业使用环境；
- 360°绝对位置测量，是替代光学编码器、旋转变压器、导电塑料电位器的理想产品

WDA angle sensor sensitive high-performance integrated magnetic Using non-contact magnetic signal sensing characteristics, with the micro-processing (Micro-computer) intelligent signal processing made Full scale of the new generation of 360° (option for 90°, 180°) and a programmable selected measuring range of the angle Sensors. The sensor has high resolution and good temperature stability advantages, cost-effective excellent.

Main Features

- Non-contact, no noise, high sensitivity and reproducibility, close to Infinite rotational life, high-frequency response characteristics;
- Environmental applicability, can be used for water, oil, steam, dust, high Low temperature, shock and vibration harsh industrial environments,
- 360° absolute position measurement, well alternative to optical encoders, rotary Changing transformers and conductive plastic potentiometers.



产品型号 Series code		WDA			
参数名称 Parameters	测试条件 Test condition	参数值 Data sheet			单位 Unit
		最小 Min.	典型 Typical	最大 Max.	
电源电压 Supply voltage		12	12	24	伏特 V
消耗电流 Current consumption			10	16	毫安 mA
测量量程 Measure angle		360			角度 Degree
输出 FS Output		0.02	V/2 (中点)	V可调 (5≤V≤12)	±0.01V
存储温度(TS)Temp of Storage		-55		150	摄氏度 ℃
使用温度(TA)Temp of Application		商业级0~55	工业级-20~80	军工器件-40~125	摄氏度 ℃
中点温漂 Middle T.C.	-40℃<TA<80℃	≤±5mV			FS
满度温漂 End T.C.	—	商业级1%	工业级0.5%	军工器件0.5%	FS
分辨率 Resolution	(等效4096分度)	0.087			角度 Degree
线性度 Linearity		0.1% (≤60°)	±0.2% (≤150°)	±0.2% (≥150°)	FS
防护等级 Protection class	IP67				
接线 connection	shield wire,teflon wire 屏蔽线,聚四氟高温导线:棕—正极,蓝—负极,黑—输出 brown:+ blue:- black:output				
备注 Remarks	输出低电压不能达到绝对0,最低0.05V,0~360°多圈测量时在0°和360°交界处有1°非线性区。建议使用避开此段非线性区域,尽量使用5°~355°范围测量,以保证输出信号线性度。 Low output voltage can not reach absolute 0V, the lowest 0.05V; There is 1° of the nonlinear zone between 0° and 360° during 0~360° circle measuring.Recommend use 5°~355° measurement range to ensure the output signal linearity.				

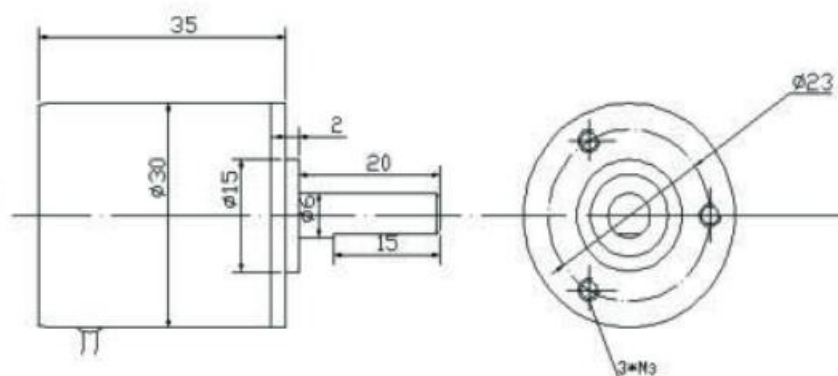
命名规则 Naming rule: WDA V/A BZ/BA 360

量程 rotar angle
V电压输出 voltage output/A电流输出 current output
BZ法兰安装 flange mounting/BA端面安装 end face installation
角度传感器 rotary sensor

安装尺寸图:

WDA-BA

端面安装:



WDA-BZ

法兰安装:

