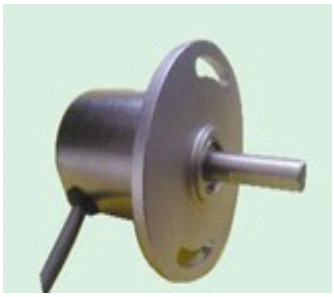
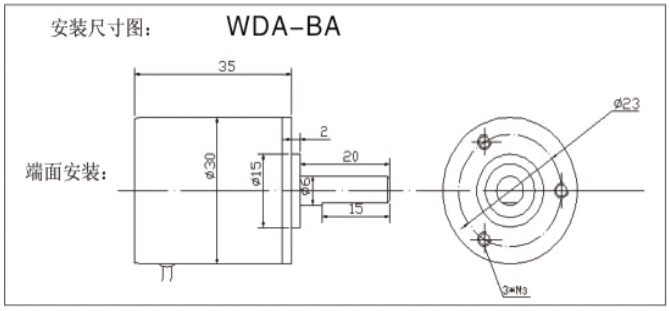
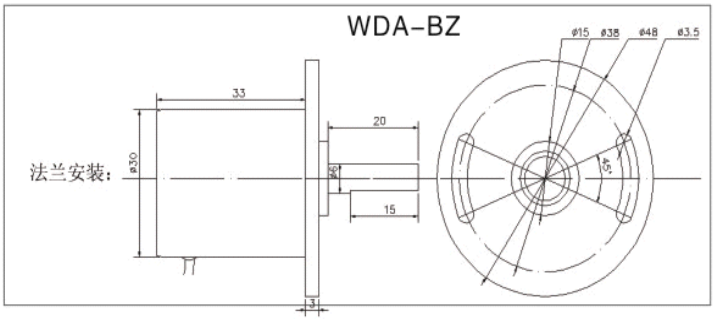
# MINOR WDA 360° 非接觸式角度位移傳感器

**W D A—BA**



**W D A—BZ**




**WDA** angle sensor sensitive high-performance integrated magnetic, using ono-contact magnetic signal sending 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 advangages, 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 and low temperature, shock and vibration harsh industrial environments;
- 360° absolute position measurement, well alternative to optical encoders, rotary changing transformers and conductive plasitic potentiometers

| Series code | | WDA | | | |
|---|---|---|---|---|---|
| Parameters | Test Condition | Data Sheet | | | Unit |
| | | Min. | Typical | Max. | |
| Supply voltage | — | 12 | 12 | 24 | V |
| Current consumption | — | — | 10 | 16 | mA |
| Measure angle | — | 360 | | | Degree |
| FS Output | — | 0.02 | V/2（中点） | V 可调(5≤V≤12) | ±0.01V |
| Temp of Storage | — | -55 | | 150 | ℃ |
| Temp of Application | — | Commercial Grade 0～55 | technical grade —20～80 | military device —40～125 | ℃ |
| Middle T.C. | —40℃＜TA＜80℃ | ≤ ±5mV | | | FS |
| End T.C. | — | Commercial Grade 1% | technical grade 0.5% | military device 0.5% | FS |
| Resolution | equivalent 4096 grads | 0.087 | | | Degree |
| Linearity | — | 0.1%（≤60° ） | ±0.2%(≤150° ) | ±0.2%（≥150° ） | FS |
| Protection class | IP67 | | | | |
| Connection | shield wire, teflon wire; brown: + blue: - black: output | | | | |
| Remarks | 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. | | | | |

Naming rule: 360---------- rotar angle

V/A----------V: voltage output/A: current output

BA/BZ----------BA: end face installation /BZ: flange mounting

WDA---------- rotary sensor