

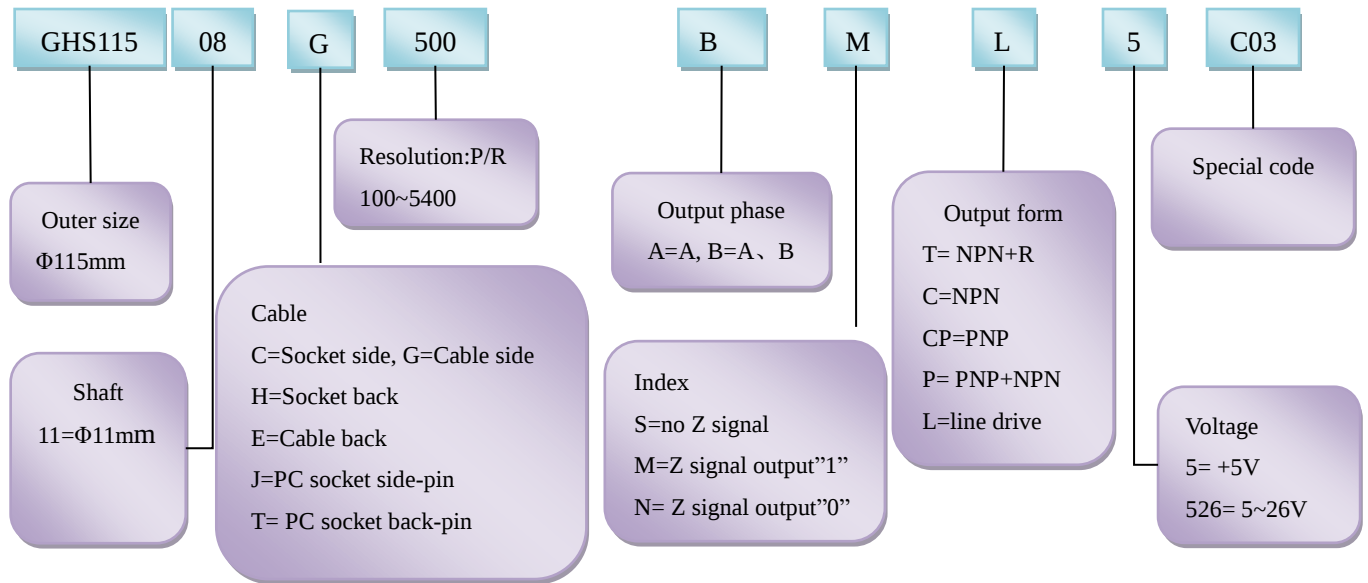
## Solid shaft incremental rotary encoder- GHS115 series

### Application & Features:

Widely used in automatic control, automatic measurement, as the angle and speed sensors. ASIC devices internal, good reliability, long life, anti-jamming performance. Stainless steel shaft has a higher stability and protection. Metal shell is more solid and anti-impact. Bearing load heavy, anti-oil and water.



### Model:



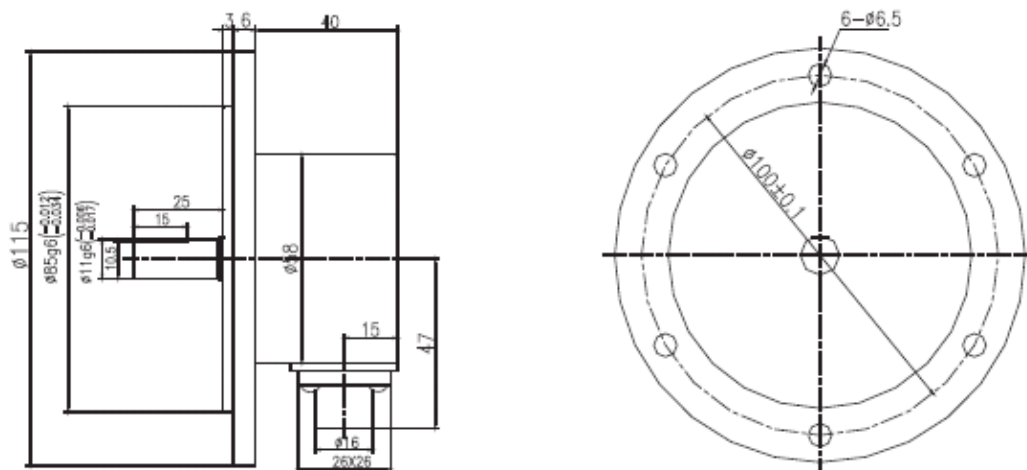
### Electrical spec:

| Output circuit             | Open-collector output | Voltage output | Push-pull complementary outputs | driver       |
|----------------------------|-----------------------|----------------|---------------------------------|--------------|
| Supply voltage             | 5~26V                 | 5~26V          | 5±0.25 5~26V                    | 5±0.25 5~26V |
| Current consumption        | ≤80mA                 | ≤80mA          | ≤80mA                           | ≤150mA       |
| Load current               | 40mA                  | 40mA           | 40mA                            | 60mA         |
| Output high                | Min Vcc*70%           | Min Vcc-2.5V   | Min Vcc-1.5V                    | Min 3.4V     |
| Output low                 | MAX 0.4V              | MAX 0.4V       | MAX 0.8V                        | MAX 0.4V     |
| Rise time Tr               | MAX 1us               | MAX 1us        | MAX 1us                         | MAX 200ns    |
| Fall time Tf               | MAX 1us               | MAX 1us        | MAX 1us                         | MAX 200ns    |
| Highest frequency response | 300kHz                | 300kHz         | 300kHz                          | 300kHz       |

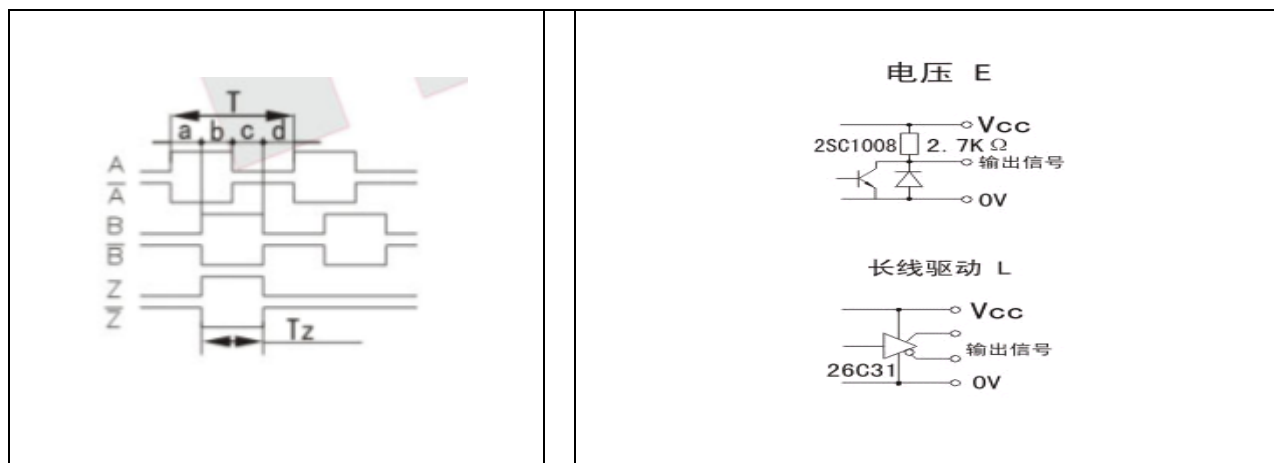
### Mechanical spec:

| Max speed r/min                       | Starting torque  | Axis maximum load     | Impact            | Anti-vibration |
|---------------------------------------|------------------|-----------------------|-------------------|----------------|
| 6000                                  | <0.05Nm          | Radial 50 N Axial 40N | 50G/11ms          | 10G 10-2000Hz  |
| Moment inertia                        | Work Temperature | Storage Temperature   | Protection Degree | Weight         |
| 4 x 10 <sup>-8</sup> kgm <sup>2</sup> | -25~80°C         | -30~85°C              | IP51              | 450g           |

## Dimensions :



## Output phase shift



## Connections:

| Signal                  | A     | B     | Z      | A-    | B-   | Z-     | Vcc | GND   |
|-------------------------|-------|-------|--------|-------|------|--------|-----|-------|
| Color                   | Green | White | Yellow | Brown | Grey | Orange | Red | Black |
| Without inverted signal | Green | White | Yellow | -     | -    | -      | Red | Black |

## Recommended of flexible coupling:

### DR Series



### BR Series

