



# HS-502

Encoder Module



## Feature

- Servo Motor Use
- Compact Size
- Low cost
- Two-channel quadrature output with ungated index pulse (A, B, I)
- Three-channel integrated commutation output (U, V, W)
- Up to 150 kHz frequency response

## Absolute Maximum Ratings

|                           |                                     |
|---------------------------|-------------------------------------|
| Operating / Storage Temp. | -40 ~ +85°C                         |
| Supply Voltage            | -10 ~ +85°C                         |
| Output Voltage            | -0.5 ~ 7V                           |
| Response Frequency        | 1250 P/R 75 KHz<br>2500 P/R 150 KHz |

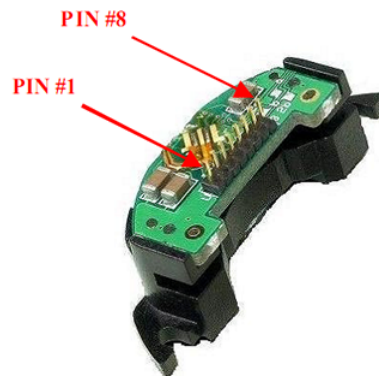
## Resolution

1000, 1024, 1250, 2000, 2048, 2500 CPR

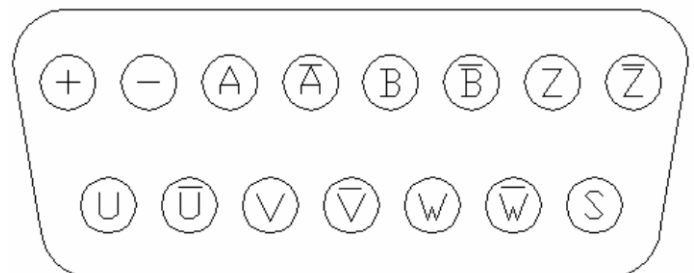
## Device Pinout

Pin #1 start from left side.

| Pin | Function        |
|-----|-----------------|
| 1   | U               |
| 2   | I               |
| 3   | V               |
| 4   | W               |
| 5   | Ground          |
| 6   | V <sub>CC</sub> |
| 7   | A               |
| 8   | B               |



## Connection



## Ordering Information

|          |                      |                                    |                              |                                   |                     |
|----------|----------------------|------------------------------------|------------------------------|-----------------------------------|---------------------|
| HS - 502 | <b>Bore Diameter</b> | <b>Resolution P/R</b>              | <b>Output Mode</b>           | <b>Output Phase</b>               | <b>Power Source</b> |
|          | 8: $\Phi$ 8mm        | 1000, 1024, 1250, 2000, 2048, 2500 | L: Line Driver<br>V: Voltage | 2: A, B phase<br>3: A, B, Z phase | 5: DC 5V            |



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## Package Dimension (Unit: mm)

