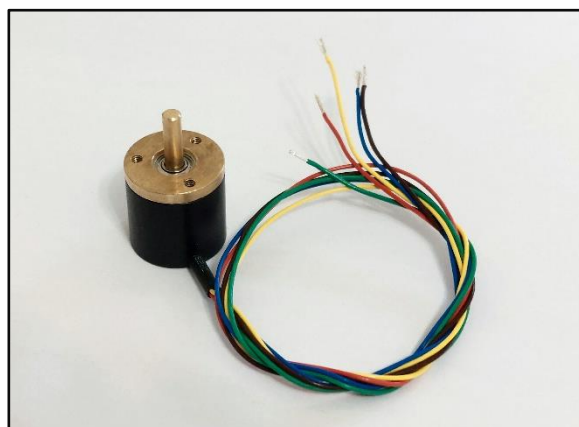


| MODEL: AE16-14-SPI    | PRODUCT SPECIFICATIONS |           |
|-----------------------|------------------------|-----------|
| PARAMETER             | UNIT                   | VALUE     |
| RESOLUTION            | <i>bit</i>             | 14        |
| INTERFACE             |                        | DIGITAL   |
| PROTOCOL              |                        | SPI       |
| MAX. CLOCK FREQUENCY  | <i>MHz</i>             | 10        |
| POWER SUPPLY          | <i>VDC</i>             | 5±0.1     |
| CURRENT               | <i>mA</i>              | 25        |
| SAMPLING RATE         | <i>KHz</i>             | 11        |
| NOISE SENSITIVITY     | <i>degree</i>          | ±0.03     |
| OPERATING TEMPERATURE | °C                     | -40~ + 85 |
| BODY DIAMETER         | <i>mm</i>              | 16        |
| BODY HEIGHT           | <i>mm</i>              | 16        |
| SHAFT DIAMETER        | <i>mm</i>              | 3         |
| SHAFT LENGTH          | <i>mm</i>              | 9         |
| MAX. SCREW DEPTH      | <i>mm</i>              | 5         |
| WEIGHT                | <i>gr</i>              | 13        |



### WIRING

RED: +5VDC  
BROWN: GND  
YELLOW: CS  
GREEN: SCK  
BLUE: MISO

| READ PACKAGE |        |            |                                                                                       |    |    |    |   |   |   |   |   |   |   |   |   |   |
|--------------|--------|------------|---------------------------------------------------------------------------------------|----|----|----|---|---|---|---|---|---|---|---|---|---|
| BIT          | 15     | 14         | 13                                                                                    | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|              | PARITY | ERROR FLAG | DATA <13:0>                                                                           |    |    |    |   |   |   |   |   |   |   |   |   |   |
| DEFINITION   |        |            |                                                                                       |    |    |    |   |   |   |   |   |   |   |   |   |   |
| PARITY       |        |            | PARITY BIT (EVEN)                                                                     |    |    |    |   |   |   |   |   |   |   |   |   |   |
| ERROR FLAG   |        |            | ERROR FLAG INDICATING A TRANSMISSION ERROR IN A PREVIOUS HOST TRANSMISSION (SET HIGH) |    |    |    |   |   |   |   |   |   |   |   |   |   |
| DATA         |        |            | 14 BIT DATA                                                                           |    |    |    |   |   |   |   |   |   |   |   |   |   |



**PARGAS SANAT FARTAK CO., LTD.**

**CODE: MAGNETIC ROTARY ENCODER**

**MATERIAL: BRASS/ALUMINIUM ALLOY**

**DATE: 1400/02/01**

