

## Absolute rotary encoder CAS60---PB with parallel output

- \* Multi-turn absolute parallel signal output
  - \* 8 bits resolution (256),
  - \* Wide operating voltage range, 10 ~ 30Vdc or 5Vdc, polarity protection
  - \* Wide operating temperature range, -25 ~ 70 °C; Storage temperature: -40 ~ 100 °C
  - \* Parallel push-pull output, the absolute value of the Binary code, can be directly connected to a variety of devices
  - \* Clamping flange or synchro flange, the international standard shape, other shape optional
  - \* For absolute encoder under harsh environmental conditions (humidity, dust, shock and vibration)
- Before using the encoder, please read the following instructions, proper use!

### Characteristic parameters

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| Operating voltage     | 10 ... 30Vdc or 5Vdc polarity protection                                                           |
| Current consumption   | <30mA (24Vdc) no-load                                                                              |
| Output signal         | parallel push-pull output active-high (parallel output voltage can be set)                         |
| Output pattern        | Grey code                                                                                          |
| Resolution            | ≤8 bit, up to 256 lines (order selection)                                                          |
| Duplicate precision   | Repeatability ± 2BIT (the actual precision and installation precision shaft concentricity related) |
| Operating temperature | -25 to 70 °C                                                                                       |
| Storage temperature   | -40 to 80 °C                                                                                       |
| Protection degree     | housing IP67, shaft IP65                                                                           |
| Shock and vibration   | 20g, 10 ~ 2000Hz; 100g, 6ms                                                                        |
| Allowed speed         | 2400 rev / min                                                                                     |
| Connection cable      | 1 m shielded cable radial side (the other forms can be ordered)                                    |
| Shape features        | metal sealed housing, sealed double-bearing structure                                              |

### Output interface (Product specifications shall prevail)

| Core cable colors | Signal output  | Core cable colors | Signal output              |
|-------------------|----------------|-------------------|----------------------------|
| Orange            | 2 <sup>0</sup> | Green/white       | 2 <sup>6</sup>             |
| Purple            | 2 <sup>1</sup> | Brown/white       | 2 <sup>7</sup>             |
| Yellow            | 2 <sup>2</sup> | Grey              | RESET <small>note1</small> |
| Grey/white        | 2 <sup>3</sup> | Red               | <b>10~30Vdc</b>            |
| Brown             | 2 <sup>4</sup> | Blue              | <b>GND 0V</b>              |
| Orange/white      | 2 <sup>5</sup> | Blue/brown        | Dir <small>note2</small>   |

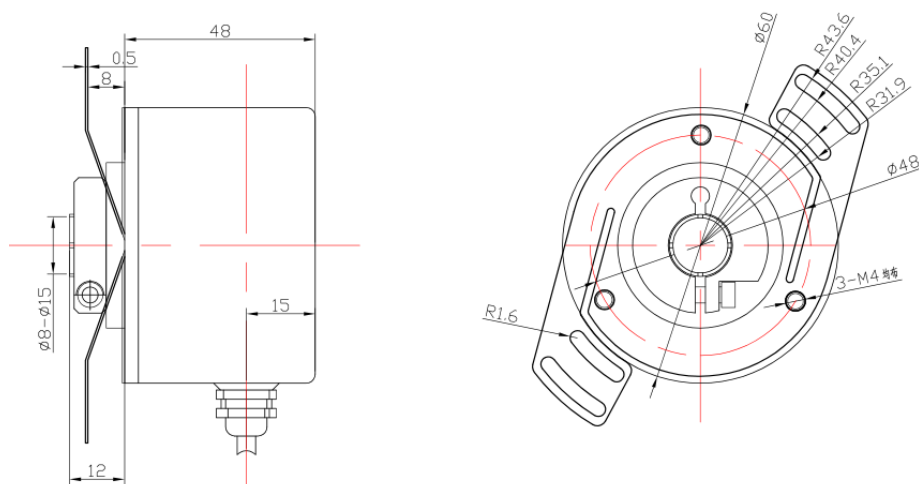
Note:

1 When the wire connected to high level, the current value is set to zero.

2 By default, the data increases clockwise; when connect the wire with high level, the data increases counterclockwise.

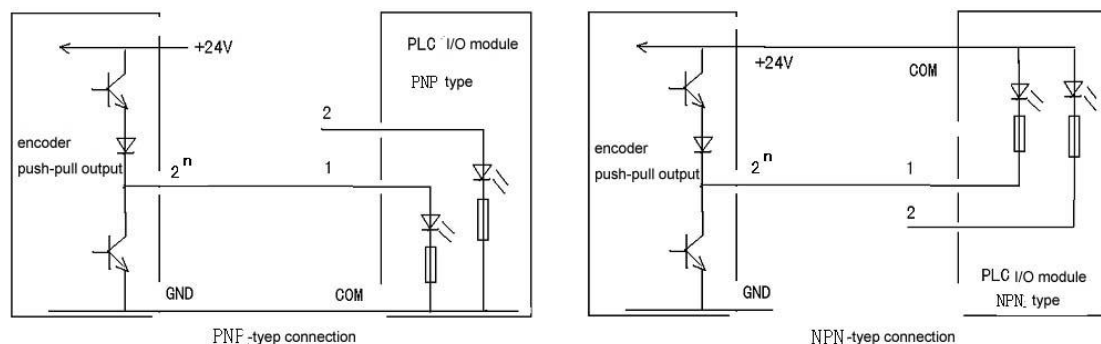
3 Maximum 50mA each parallel output

## Installation dimensions (Unit: mm)



## Signal output

CAS60R8E06PB parallel push-pull output of the output signal, and the PLC input module (I / O) connections as shown below:



Extensions [Blue/Brown]: When connected to a high level of data increases counterclockwise; when clockwise, please connect the wire to the power ground (GND 0V)

## Note:

- \* The encoder is a precision instrument, do not knock or bump encoders, gently, carefully use;
- \* Guaranteed encoder supply in the range 10-30Vdc and do isolation to prevent large-scale electric power grid to start the encoder produces shock;
- \* In the environment of strong electromagnetic interference, the signal line is best to use a dedicated line, such as double-shielded twisted pair cable can be ordered from the Company;
- \* Encoder signal line should be well grounded: close, both ends of the cable shielding should be grounded within two meters; greater distance encoder grounded metal enclosure, the encoder comes with cable shielding vacant, signal extension cable shielding in signal receiving end single-grounded; If the signal cable longer or outdoor use, signal cables should put metal iron pipe and metal pipe at both ends of the ground to use;
- \* Encoder protection class IP65, waterproof to use, but do not flooding the encoder shaft.