

Absolute encoder CAS60-PB with parallel output user manual

Brief

12-bit parallel output of Single-turn absolute encoder, CW, CCW is compatible, single lap and multiple laps work is optional, anti-jamming, the best choice for replacing incremental encoder

Before using the encoder, please read the following instructions, proper use!

Advantage

- *Single-turn absolute encoder, it both have the choice of CW and CCW.
- *Single-turn encoder combines metering lap signal, can work multi-lap, not more than 90 degrees to the power outage.
- *12 bits resolution (1024,2048 lines can be ordered).
- * Wide working voltage range, 10 ... 30Vdc, reverse polarity protection.
- * Wide operating temperature range,-25~80Celsius; storage temperature: -40~80Celsius.
- * Parallel push-pull output, optional for voltage reference, can be connected to a variety of devices.
- * Comes with chips core operations, can be put zero.
- * Clamping flange, Synchronous flange or Blind hollow shaft is optional, the length of the cable and socket can be ordered.

Characteristic parameters

Operating voltage	10 ... 30Vdc polarity protection
Current consumption	<50mA (24Vdc) no-load
Output signal	parallel push-pull output active-high (parallel output voltage can be set)
Output pattern	Gray code and Binary code is optional
Input signal	KVCC parallel output reference voltage, output voltage drop <2V
Resolution	≤12 bit, up to 4096 lines (order selection)
Duplicate precision	Repeatability ± 2BIT (the actual precision and installation precision shaft concentricity related)
Operating temperature	-25 to 80 Celsius
Storage temperature	-40 to 80 Celsius
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
Red	10...30Vdc	Yellow	Bit 6
Blue	GND 0V note1	Grey/White	Bit 7
Black	Bit 0	Brown	Bit 8
White	Bit 1	Orange/White	Bit 9
Green	Bit 2	Green/white	Bit 10

Pink	Bit 3	Brown/white	Bit11
Orange	Bit 4	Grey	Reset note3
purple	Bit 5	Blue/white	Direction note2

Note:

1 Keep two lines connected together when normal working

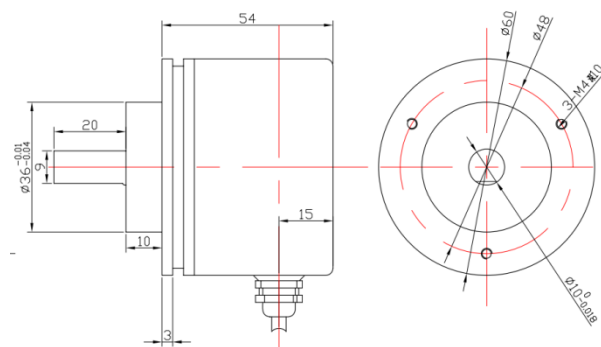
2 By default, the data increases clockwise; when connect the wire with high level, the data increases counterclockwise.

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

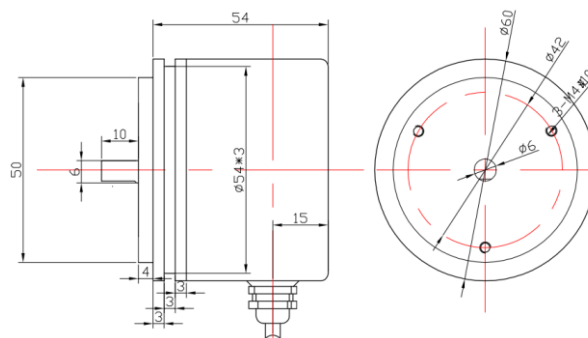
4 Maximum 50mA each parallel output

Installation dimensions (Unit: mm)

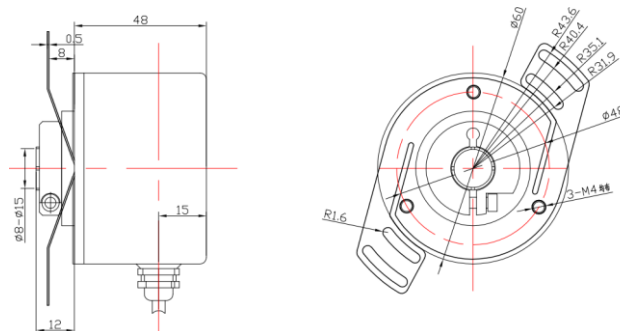
a. Clamping & synchro flange(default)



b. Synchro flange

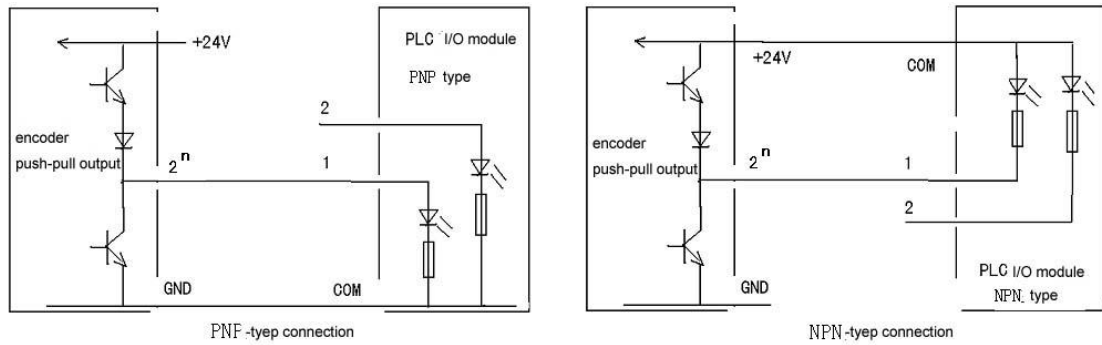


c. Blind hollow shaft



Signal output

CAS60R12E10PB 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.