

Absolute rotary encoder CAX60---PB with parallel output

- *Built-in multi-turn mechanical gear wheel encoder module, No battery or capacitor required for number of revolution counting during power failure
 - * 12 bits resolution (4096), 12 bits consecutive laps (4096 laps)
 - * Wide operating voltage range, 10 ~ 30Vdc or 5Vdc, polarity protection
 - * Wide operating temperature range, -40 ~ 85 °C; Storage temperature: -40 ~ 85 °C
 - * Parallel push-pull output, the absolute value of the Gray code, can be directly connected to a variety of devices
 - * 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	Gray code
Resolution	≤12 bit, up to 4096 lines (order selection)
Lap	Max 4096
Duplicate precision	Repeatability ± 2BIT (the actual precision and installation precision shaft concentricity related)
Operating temperature	-40 to 85 °C
Storage temperature	-40 to 85 °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
Black	2 ⁰	White/Grey	2 ¹⁵
Green	2 ¹	Grey/Pink	2 ¹⁶
Yellow	2 ²	Red/Blue	2 ¹⁷
Pink	2 ³	Yellow/Blue	2 ¹⁸
Purple	2 ⁴	Green/Blue	2 ¹⁹
Red	2 ⁵	Yellow/Pink	2 ²⁰
Brown/Green	2 ⁶	Pink/Green	2 ²¹
White/Green	2 ⁷	Yellow/Grey	2 ²²
Brown/Red	2 ⁸	Grey/Green	2 ²³
White/Red	2 ⁹	Brown/Black	2 ²⁴
Brown/Blue	2 ¹⁰	White/Black	KVCC note1
White/Blue	2 ¹¹	Grey	RESET note2
White/Yellow	2 ¹²	Brown	10~30Vdc
Yellow/Brown	2 ¹³	White	GND 0V
Grey/Brown	2 ¹⁴	Blue	Dir note3

note1 Parallel output reference voltage, each <2V, when normal using, please connect with power positive (brown wire) together.

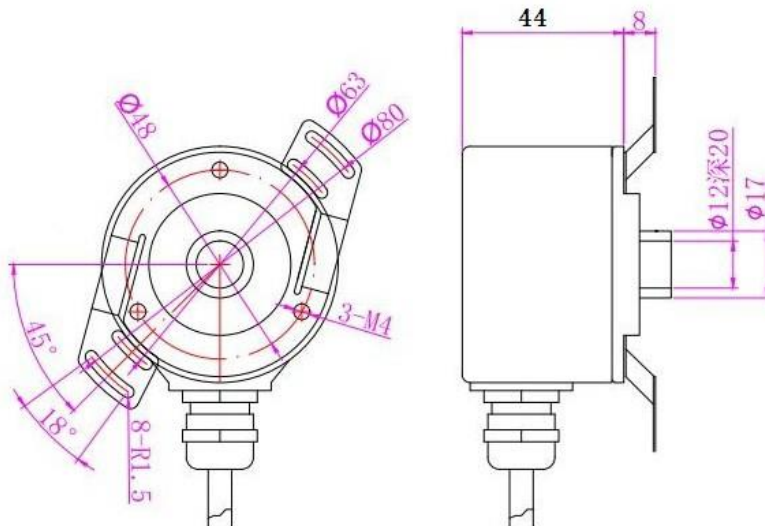
note3 By default, the data increases clockwise; when connect the wire with high level, the data increases counterclockwise.

note5 Maximum 50mA each parallel output

a. Clamping & synchro

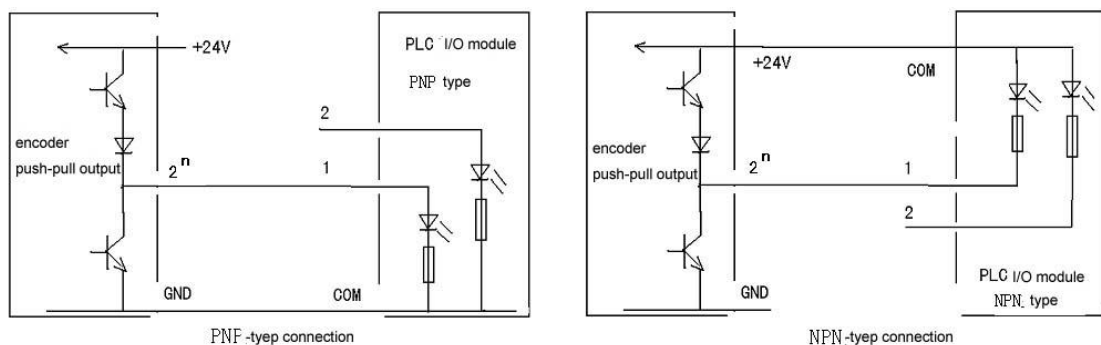


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Signal output

CAX60R1212E10PB 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.