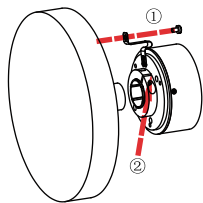


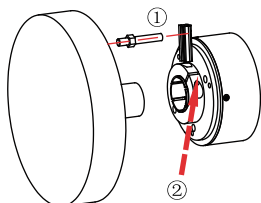
编码器安装:

H型支架安装



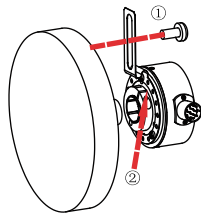
- ① 将编码器的支架固定在电机上且拧紧螺钉
- ② 拧紧锁圈上的螺钉

Q/K型挡销安装



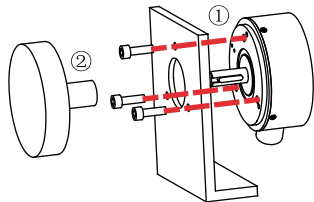
- ① 将销钉拧紧在电机上, 编码器装在电机轴上且保证挡销插入销钉上
- ② 拧紧锁圈上的螺钉

L型长臂支架安装



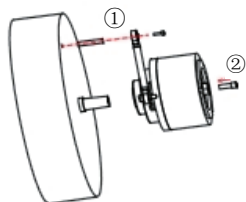
- ① 将编码器的弹簧片固定在电机上且拧紧螺钉
- ② 拧紧锁圈上的螺钉

P1C型键槽安装



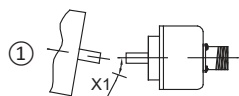
- ① 将编码器固定在支架上将螺钉拧紧
- ② 将编码器的轴通过键与电机轴联结

R型万向扭矩臂安装

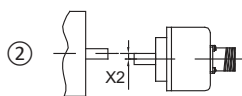


- ① 将编码器套装于电机轴上且固定拐臂
- ② 将螺钉通过编码器的轴紧固在电机轴上

安装注意事项:



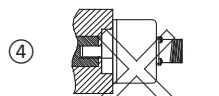
① 编码器与被测物体轴之间的角度偏差X1 < 1.5°。



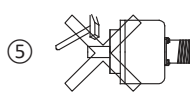
② 编码器与驱动输出轴之间的径向偏差X2 < 0.1 mm。



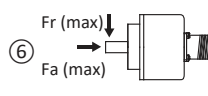
③ 禁止局部或部分拆卸或改装编码器。



④ 编码器与外部连接需要避免刚性连接。



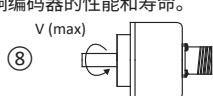
⑤ 编码器是高精度仪器, 安装时严禁敲击和磕碰, 安装或使用不当会影响编码器的性能和寿命。



⑥ 安装时注意编码器允许的轴向/径向最大负载, 严禁超过最大值。



⑦ 禁止对编码器轴进行打磨、切割、钻孔等任何加工处理。



⑧ 注意不要超过编码器的极限转速, 否则可能出现信号丢失。

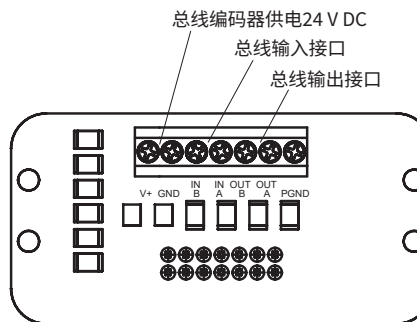
电气参数:

|      |                |
|------|----------------|
| 接口协议 | Profibus-DP    |
| 供电电压 | 10 ... 30 V DC |

端子配置 (Profibus):

|         |                   |
|---------|-------------------|
| V+      | 电源供电              |
| GND     | 供电地 0 V           |
| B (IN)  | Profibus-DP入线 (红) |
| A (IN)  | Profibus-DP入线 (绿) |
| B (OUT) | Profibus-DP出线 (红) |
| A (OUT) | Profibus-DP出线 (绿) |

接线端子排

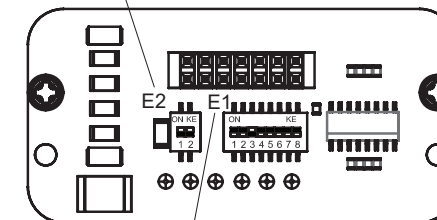


接线盒的使用

使用接线盒时, 必须拧下后部端盖上的四个螺丝, 将后部端盖从编码器主体上移走。根据接线端子上的指示文字接线。  
注意: 要在Profibus-DP主站中设置参数和配置从站, 必须使用编码器相应的gsd设备文件。

DIP开关设置

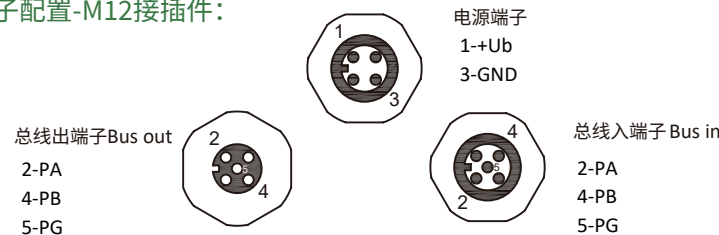
E2: 终端设置开关  
DIP1-DIP2默认为OFF, 如编码器为终端或者单机设备, 将两个拨码开关同时拨为ON, 阻值220 Ω



E1: 地址设定开关

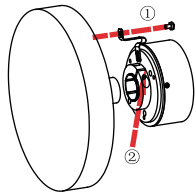
DIP1-DIP7编码器地址设置开关, 从左向右从低位到高位采用二进制运算规则分布。如图示意默认地址为4, Profibus网络可接入最大数126。  
DIP8: CW(顺时针) 与 CCW(逆时针) 方向改变按钮, 即计数方向改变。

端子配置-M12接插件:



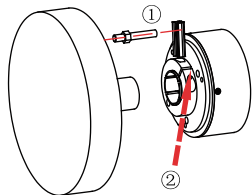
ENCODER INSTALLATION

H type equipped with spring



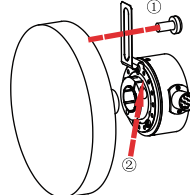
- ① Install the encoder on the motor and fasten the spring
- ② Tighten the screw on encoder

Q/K type equipped with torque stop



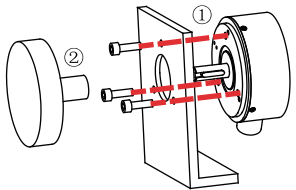
- ① Install the torque stop on the motor, install the encoder on the shaft via torque stop
- ② Tighten the screws on encoder

L type equipped with extended spring



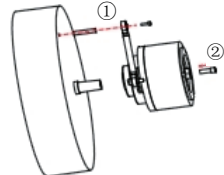
- ① Install the encoder on the motor and fasten the spring
- ② Tighten the screw on encoder

P1C type mounting with keyslot



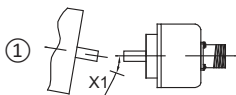
- ① Install encoder onto the stend
- ② Install the key into the keyslot and install encoder onto the motor

R type encoders equipped with universal torque arm

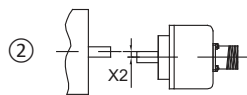


- ① Install the encoder on the motor and fasten the universal torque arm
- ② Fix the encoder on the motor shaft with a screw

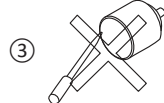
INSTALLATION ATTENTION



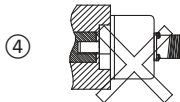
The angle deviation between the encoder and shaft is  $X1 < 1.5^\circ$ .



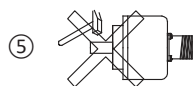
The radial deviation between the encoder and shaft is  $X2 < 0.1 \text{ mm}$ .



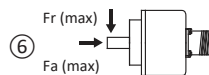
No modification.



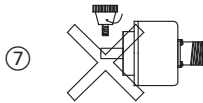
Don't use rigid connection between encoder and flange.



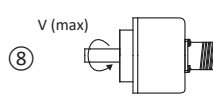
No hammer and impact.



Axial and radial load not beyond the limit.



No machining to the shaft. (Inc. skiving, sawing, drilling)



Not beyond  $V(\text{max})$ , otherwise signal will be lost.

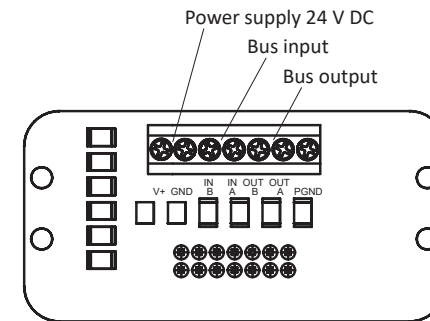
ELECTRICAL PARAMETERS

|                |                |
|----------------|----------------|
| Protocol type  | Profibus-DP    |
| Supply voltage | 10 ... 30 V DC |

TERMINAL ASSIGNMENT (Profibus)

|         |                            |
|---------|----------------------------|
| V+      | Supply voltage             |
| GND     | 0 V                        |
| B (IN)  | Profibus-DP input (RED)    |
| A (IN)  | Profibus-DP input (GREEN)  |
| B (OUT) | Profibus-DP output (RED)   |
| A (OUT) | Profibus-DP output (GREEN) |

Terminal interface

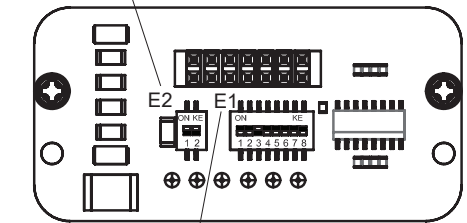


Open the rear cover of the encoder and connect the wire according to the instructions on the terminal.

Note: To set parameters and configure the slave in the Profibus-DP master, it is necessary to use the appropriate gsd file of encoder.

DIP switch setting

E2: Terminal DIP switch  
DIP1-DIP2 terminal setting is default 'OFF', if terminal is encoder, please turn switch 'ON' and terminal resistance is 220 Ω.



E1: Address DIP switch  
DIP1-DIP7: Address setting is binary code, the default address is 4 in the diagram, and the max value can be acceptable by Profibus network is 126.  
DIP8: CW/CCW button, the counting direction can be changed

TERMINAL ASSIGNMENT - M12 Connector

