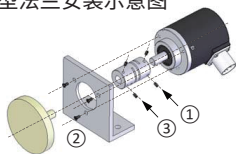


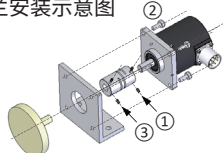
轴型编码器安装:

A型/C型法兰安装示意图



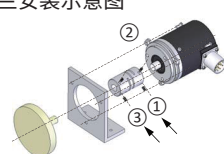
- ① 将联轴器安装到编码器
- ② 将编码器安装到支架
- ③ 将联轴器套装于被测轴上

D型法兰安装示意图



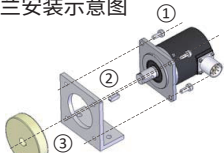
- ① 将联轴器安装到编码器
- ② 将编码器安装到支架上
- ③ 将联轴器套装于被测轴上

B型法兰安装示意图



- ① 将联轴器安装到编码器
- ② 将编码器通过偏心器安装到支架上
- ③ 将联轴器套装于被测轴上

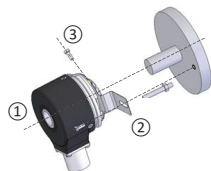
M型法兰安装示意图



- ① 将编码器安装到支架上
- ② 将键装入键槽
- ③ 将编码器安装到电机上

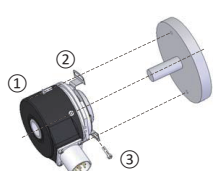
轴套型编码器安装:

单翼弹簧片安装示意图



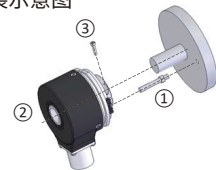
- ① 将编码器套装于电机上
 - ② 固定弹簧片
 - ③ 紧固编码器锁圈螺丝
- 注: 产品安装要以弹簧片本身不发生任何形变为标准

双翼弹簧片安装示意图



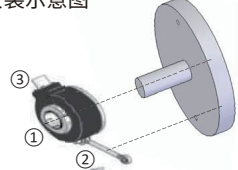
- ① 将编码器套装于电机上
 - ② 固定弹簧片
 - ③ 紧固编码器锁圈螺丝
- 注: 产品安装要以弹簧片本身不发生任何形变为标准

挡销安装示意图



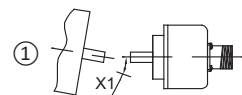
- ① 将挡销安装于电机或者支架上
- ② 将编码器通过挡销套装于被测轴上, 确保挡销尾端面与支撑槽底有0.8 mm的余量
- ③ 紧固编码器锁圈螺丝

拐臂安装示意图

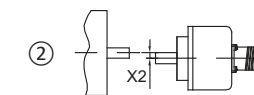


- ① 将编码器套装于被测轴上
 - ② 固定方向扭矩臂
 - ③ 紧固编码器锁圈螺丝
- 注: 产品正确安装时拐臂不能与编码器外壳接触

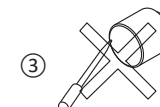
安装注意事项:



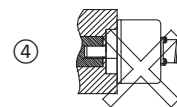
编码器与被测物体轴之间的角度偏差 $X1 < 1.5^\circ$ 。



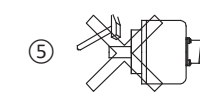
编码器与驱动输出轴之间的径向偏差 $X2 < 0.1\text{mm}$ 。



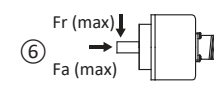
禁止局部或部分拆卸或改装编码器。



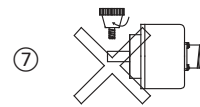
编码器与外部连接需要避免刚性连接。



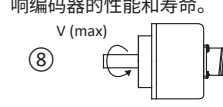
编码器是高精度仪器, 安装时严禁敲击和磕碰, 安装或使用不当会影响编码器的性能和寿命。



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。



禁止对编码器轴进行打磨、切割、钻孔等任何加工处理。



注意不要超过编码器的极限转速, 否则可能出现信号丢失。

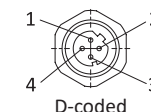
电气特性:

接口类型	Profinet IO/RT
供电电压	10 ... 30 V DC

端子配置:

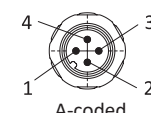
总线接口 1: LINK1-Bus in

信号	TxD+	RxD+	TxD-	RxD-
针号(M12 4-pin)	1	2	3	4



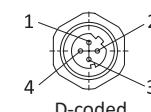
电源接口

信号	+V	0 V
针号(M12 4-pin)	1	3



总线接口 2: LINK2-Bus out

信号	TxD+	RxD+	TxD-	RxD-
针号(M12 4-pin)	1	2	3	4

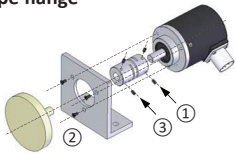


TxD: 数据发送, RxD: 数据接收

注: 组态文件需从官网下载, 不同系列匹配的组态文件如下:
 PNMM58: GSDML-V2.31-ELCO-ENCODER-20141012.xml
 PNMM58-ND: GSDML-V2.34-ELCO-Encoder-20200702.xml

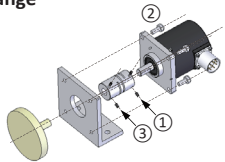
ENCODER INSTALLATION

A/C type flange



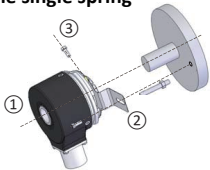
- ① Install coupling onto the encoder
- ② Install encoder onto the stand
- ③ Install the coupling onto the motor shaft

D type flange



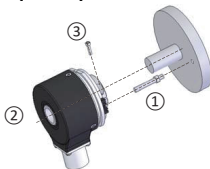
- ① Install coupling onto the encoder
- ② Install encoder onto the stand
- ③ Install the coupling onto the motor shaft

Standard hollow shaft encoders equipped with the single spring



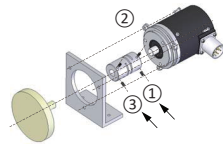
- ① Install the encoder on the motor
- ② Fasten the spring
- ③ Tighten the screws on encoder

Standard hollow shaft encoders equipped with torque stop



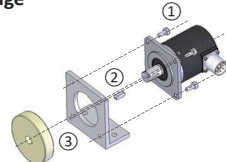
- ① Install the torque stop on the motor or bracket
- ② Install the encoder on the measured shaft via torque stop. Make sure there is 0.8 mm gap between the end side of the torque and the support trench
- ③ Tighten the screws on encoder

B type flange



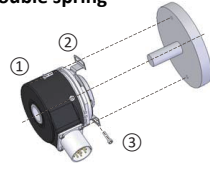
- ① Install coupling onto the encoder
- ② Install encoder onto the stand via eccentricizer
- ③ Install the coupling onto the motor shaft

M type flange



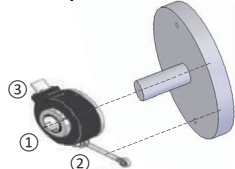
- ① Install encoder onto the stand
- ② Install the key into the keyslot
- ③ Install encoder onto the motor

Standard hollow shaft encoders equipped with the double spring



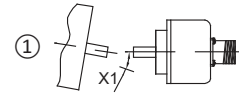
- ① Install the encoder on the motor
- ② Fasten the spring
- ③ Tighten the screws on encoder

Standard hollow shaft encoders equipped with universal torque arm

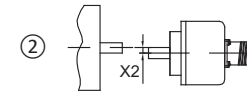


- ① Install the encoder on the motor
- ② Fasten the universal torque arm
- ③ Tighten the screws on encoder

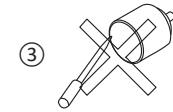
INSTALLATION ATTENTION



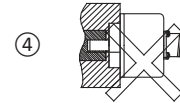
The angle deviation between the encoder and shaft is $X1 < 1.5^\circ$.



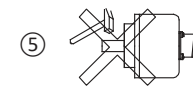
The radial deviation between the encoder and shaft is $X2 < 0.1 \text{ mm}$.



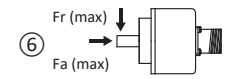
No modification.



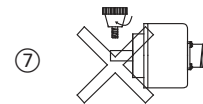
Don't use rigid connection between encoder and flange.



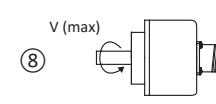
No hammer and impact.



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.

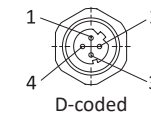
ELECTRICAL PARAMETERS

Interface Type	Profinet IO/RT
Supply Voltage	10 ... 30 V DC

TERMINAL ASSIGNMENT

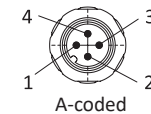
Bus Port 1: LINK1-Bus in

Signal	TxD+	RxD+	TxD-	RxD-
Pin(M12 4-pin)	1	2	3	4



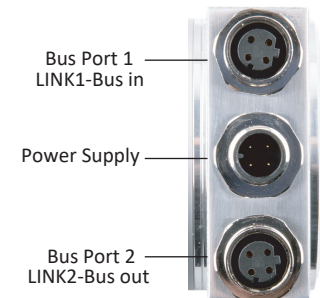
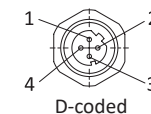
Power Supply

Signal	+V	0 V
Pin(M12 4-pin)	1	3



Bus Port 2: LINK2-Bus out

Signal	TxD+	RxD+	TxD-	RxD-
Pin(M12 4-pin)	1	2	3	4



TxD: Transmit Data, RxD: Receive Data

Note: Configuration files need be downloaded from official website, the different series match different configuration files as follows:

- PNMM58: GSDML-V2.31-ELCO-ENCODER-20141012.xml
- PNMM58-ND: GSDML-V2.34-ELCO-Encoder-20200702.xml