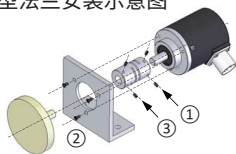


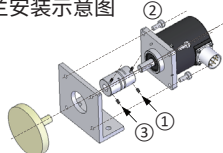
轴型编码器安装:

A型/C型法兰安装示意图



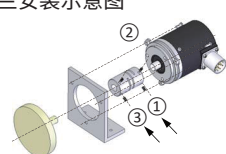
- ① 将联轴器安装到编码器
- ② 将编码器安装到支架
- ③ 将联轴器套装于被测轴上

D型法兰安装示意图



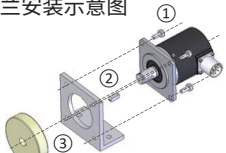
- ① 将联轴器安装到编码器
- ② 将编码器安装到支架上
- ③ 将联轴器套装于被测轴上

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

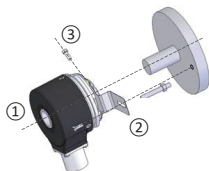
M型法兰安装示意图



- 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:

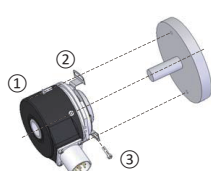
单翼弹簧片安装示意图



- 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

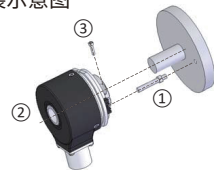
双翼弹簧片安装示意图



- 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

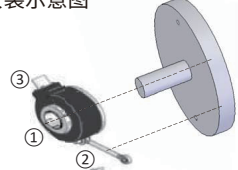
注:产品安装要以弹簧片本身不发生任何形变为标准

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

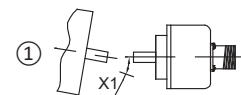
拐臂安装示意图



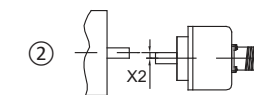
- ① 将编码器套装于被测轴上
- ② 固定方向扭矩臂
- ③ 紧固编码器锁圈螺丝

注:产品正确安装时拐臂不能与编码器外壳接触

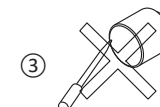
安装注意事项:



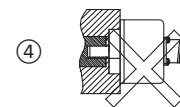
编码器与被测物体轴之间的角度偏差 $X1 < 1.5^\circ$ 。



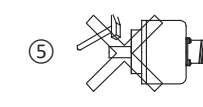
编码器与驱动输出轴之间的径向偏差 $X2 < 0.1 \text{ mm}$ 。



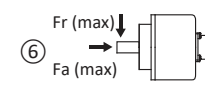
禁止局部或部分拆卸或改装编码器。



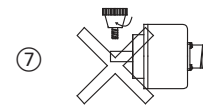
编码器与外部连接需要避免刚性连接。



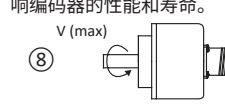
编码器是高精度仪器, 安装时严禁敲击和磕碰, 安装或使用不当会影响编码器的性能和寿命。



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。

电气参数:

输出代码	输出形式	反相信号	供电电压
L	TTL	有	L5=5 V DC, L4=5 ... 30 V DC, L6=10 ... 30 V DC
H	推挽HTL	有	H4=5 ... 30 V DC, H6=10 ... 30 V DC
P	推挽HTL	无	P4=5 ... 30 V DC, P6=10 ... 30 V DC
C	NPN集电极开路	无	C4=5 ... 30 V DC, C6=10 ... 30 V DC

端子配置:

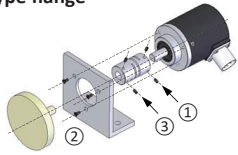
信号	0V	+Ub	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	屏蔽
色标	白	棕	绿	黄	灰	粉	蓝	红	\perp
针号 (M12 5针)	1	2	3	-	4	-	5	-	PH
针号 (M12 8针)	1	2	3	4	5	6	7	8	PH
针号 (M23 12针)	10	12	5	6	8	1	3	4	PH

针式连接座俯视图:

出线方式	M5型出线方式	M8型出线方式	T型出线方式
接插件类型	M12 5针	M12 8针	M23 12针
连接座俯视图			

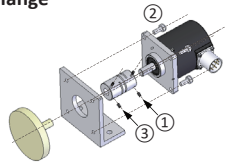
ENCODER INSTALLATION

A/C type flange



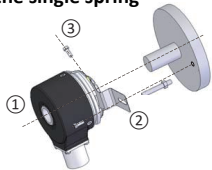
- ① Install coupling onto the encoder
- ② Install encoder onto the stand
- ③ Install the coupling onto the motor shaft

D type flange



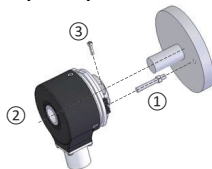
- ① Install coupling onto the encoder
- ② Install encoder onto the stand
- ③ Install the coupling onto the motor shaft

Standard hollow shaft encoders equipped with the single spring



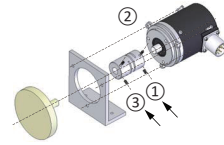
- ① Install the encoder on the motor
- ② Fasten the spring
- ③ Tighten the screws on encoder

Standard hollow shaft encoders equipped with torque stop



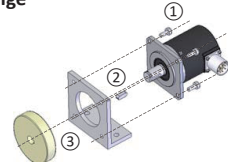
- ① Install the torque stop on the motor or bracket
- ② Install the encoder on the measured shaft via torque stop. Make sure there is 0.8 mm gap between the end side of the torque and the support trench
- ③ Tighten the screws on encoder

B type flange



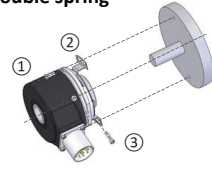
- ① Install coupling onto the encoder
- ② Install encoder onto the stand via eccentricizer
- ③ Install the coupling onto the motor shaft

M type flange



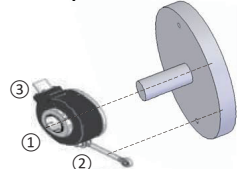
- ① Install encoder onto the stand
- ② Install the key into the keyslot
- ③ Install encoder onto the motor

Standard hollow shaft encoders equipped with the double spring



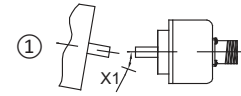
- ① Install the encoder on the motor
- ② Fasten the spring
- ③ Tighten the screws on encoder

Standard hollow shaft encoders equipped with universal torque arm

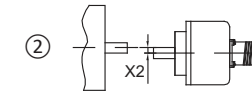


- ① Install the encoder on the motor
- ② Fasten the universal torque arm
- ③ Tighten the screws on encoder

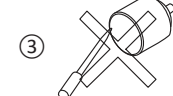
INSTALLATION ATTENTION



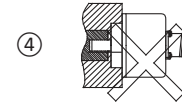
The angle deviation between the encoder and shaft is $X1 < 1.5^\circ$.



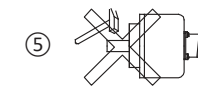
The radial deviation between the encoder and shaft is $X2 < 0.1 \text{ mm}$.



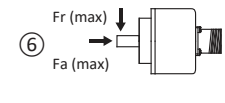
No modification.



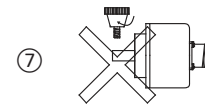
Don't use rigid connection between encoder and flange.



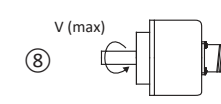
No hammer and impact.



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

Output code	Output type	Inverted signal	Supply voltage
L	TTL	Y	L5=5 V DC, L4=5 ... 30 V DC, L6=10 ... 30 V DC
H	Push-pull HTL	Y	H4=5 ... 30 V DC, H6=10 ... 30 V DC
P	Push-pull HTL	N	P4=5 ... 30 V DC, P6=10 ... 30 V DC
C	NPN OC	N	C4=5 ... 30 V DC, C6=10 ... 30 V DC

TERMINAL ASSIGNMENT

Signal	0V	+Ub	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	SHD
Color	WH	BN	GN	YE	GY	PK	BU	RD	⏏
Pin(M12 5-pin)	1	2	3	-	4	-	5	-	PH
Pin(M12 8-pin)	1	2	3	4	5	6	7	8	PH
Pin(M23 12-pin)	10	12	5	6	8	1	3	4	PH

TOP VIEW OF CONNECTOR

Type	Type-M5	Type-M8	Type-T
Connector	M12 5-pin	M12 8-pin	M23 12-pin
Top view			