

To ensure good drive control service and its safe use, please read the following instructions carefully before using this product and its electrical and mechanical systems

1. Mechanical and electrical installation instructions

Before installation, please make sure that the drive is in the power off state, it is forbidden to insert the power plug

Remove the pre-sealed cover on the C-type SLOT3 card slot and insert the option vertically after inserting the option. After opening the R-type cover, insert the option from SLOT5 and lock it with the screw.

Use a flat-blade screwdriver or standard DB9 and DB15 heads to complete the wiring according to the wiring diagram after checking the model.

The wiring diameter is AWG14~24 (2.1~0.2mm²), and the terminal torque is up to 5kgf-cm.

To prevent interference, use a qualified shielded cable, and do not route alongside the AC220V and above circuits, and keep the distance between the motor and power cables at 15CM or more. When interlacing, please observe the principle of vertical wiring.

When connecting an inductive load (relay, electromagnetic contactor, motor, etc.), install an arc eliminator (RC absorber) on the coil side.

Try to control the length of the wiring (because this length is inversely proportional to the signal frequency).

Please use this product in a non-corrosive gas, liquid and dust-free indoor environment.

For safety reasons, please install a fuse in the circuit (the specification cannot be greater than the contact limit)

DB Plug eg.

Do not plug or unplug this card with power, otherwise the machine may be damaged. Before the signal is connected, it must be confirmed that the motor is well grounded, otherwise the motor is inductive and has the risk of electric shock and equipment.

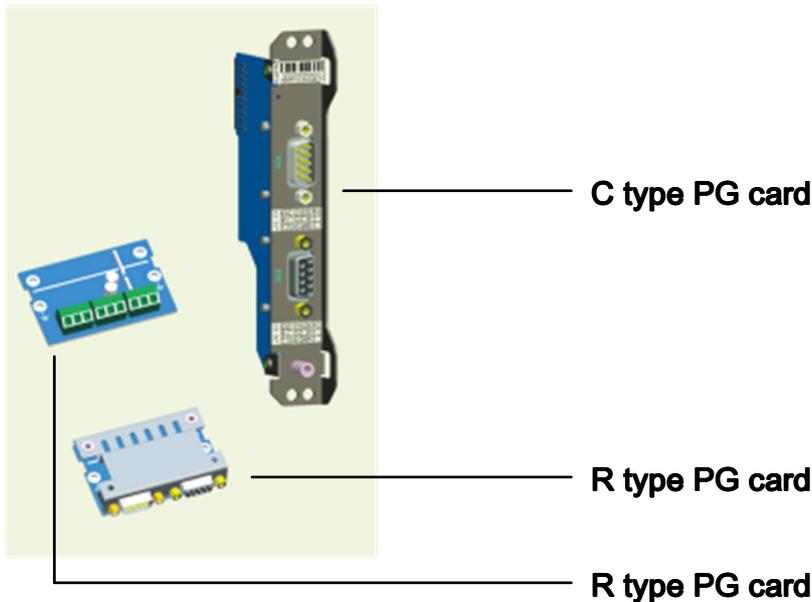
This product is a static-sensitive component. Although it has been treated with anti-static damage before leaving the factory, it is recommended that you minimize unnecessary hand-free contact during the installation and use process to avoid damage.



2. Specifications

Universal DB series gold-plated solderless terminal block connector, as above

No	Option name	Type	Option description and features
1	High-speed differential encoder module	+TTL33	9+15Pin+C type, Non-isolated, high-speed differential encoder
2	Resolver encoder module	+RT33	9+15Pin+C type, for resolver type encoder
3	SinCos encoder module	+SN34	9+15Pin+C type, for resolver type encoder, frequency doubling inside
4	HTL pulse encoder module	+HTL39	9+15Pin+C type, HTL pulse encoder by DC12V, frequency dividing inside
5	TTL pulse encoder module	+TTL39	9+15Pin+C type, TTL pulse encoder by DC5V, frequency dividing inside
6	HTL pulse encoder module	+HTL52	9Pin Screw+R type, HTL pulse encoder by DC12V
7	Resolver encoder module	+RT55	9+15Pin+R type, for resolver type encoder
8	HTL pulse encoder module	+HTL59	9+15Pin+R type, HTL pulse encoder by DC12V, frequency dividing inside
9	TTL pulse encoder module	+TTL59	9+15Pin+R type, TTL pulse encoder by DC5V, frequency dividing inside
10	DB15VGA female plug with 15pin	+DB15F	Plug in X31 on C and R type drive with DB15 Pin
11	DB9VGA male plug with 9pin	+DB9M	Plug in X32 on C and R type drive with DB9 Pin



➤ +SN34 Sin/Cos encoder card wiring guide

1. The sine-cosine encoder shielded cable is connected to the corresponding signal port of the PG card DB9 male and the power supply VCC (+5V)/GND port. As shown in Figure 3, the shielded cable is connected to the PE port of the DB9 male (the PE port of the DB9 male is marked as "GND" on the physical object, and this "GND" is not the signal GND).

2. If necessary, the control system is connected to the DB15 female port of the PG card through a shielded cable:

Only support the differential pulse given, the PG card PA+/PA-, PB+/PB-,GND is connected, as shown in Fig. 4.

Only support the differential pulse divider output, connect PG card AO+/AO-, BO+/BO-, ZO+/ZO-, GND, as shown in Figure 5.

Be sure to connect the signal GND line of the control system to the signal GND on the DB15 port of the PG card. The shield line is connected to the PE port of the DB male (the PE port of the DB15 female is marked as "GND" on the physical object. This "GND" is not Signal GND).

DB9			
1	A+	6	A-
2	B+	7	B-
3	Z+	8	Z-
4	COM	9	GND
5	VCC/+5V	"GND"	PE

DB15					
1	A0+	6	GND	11	PA+
2	A0-	7	NC	12	PA-
3	B0+	8	NC	13	PB+
4	B0-	9	NC	14	PB-
5	Z0+	10	Z0-	15	GND
"GND"	PE				

Figure 1 +SN34 DB9/DB15 Port Definition

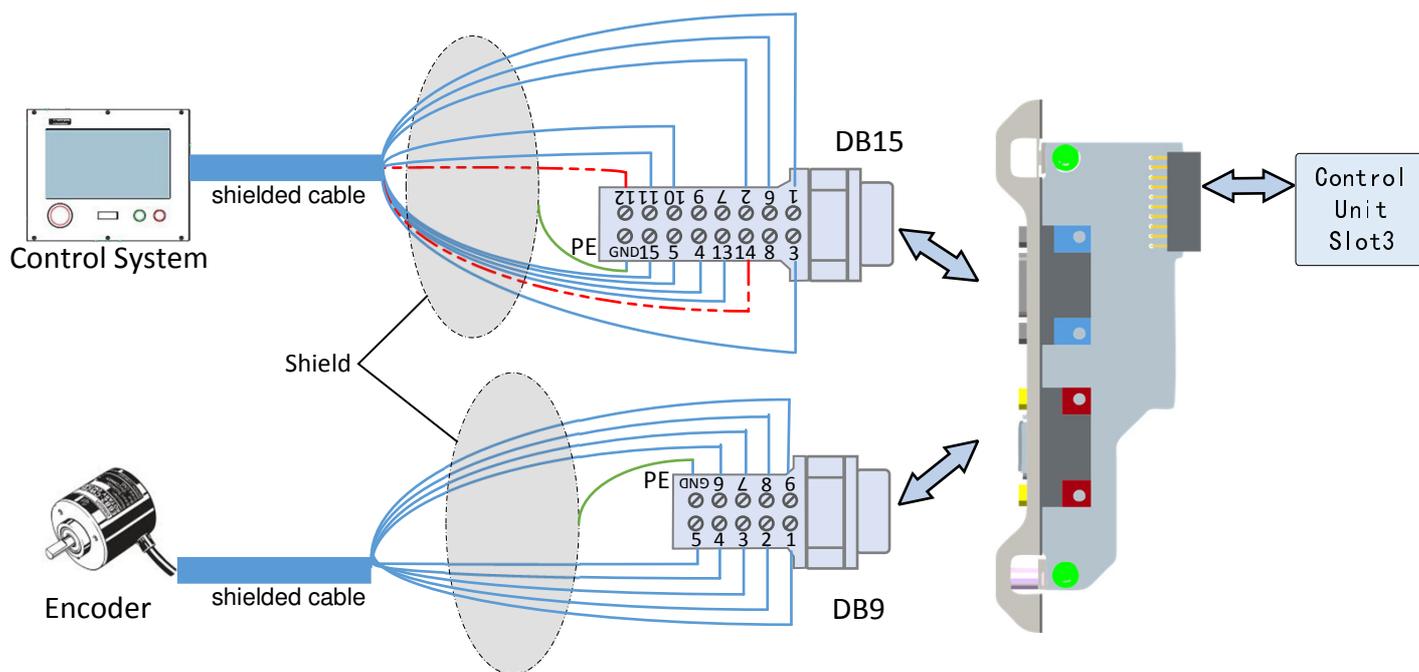


Figure 2 +SN34 Wiring Diagram

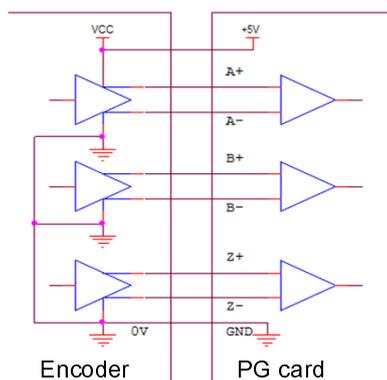


Figure 3 Sin-Cosine encoder wiring diagram

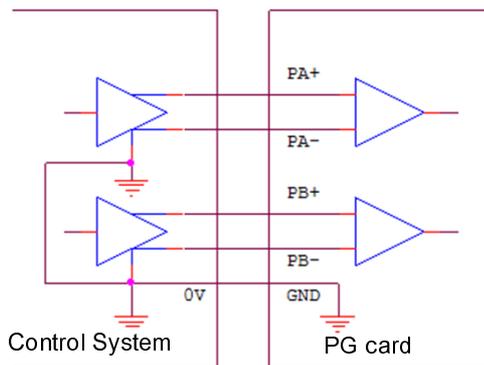


Figure 4 Differential pulse is given wiring diagram

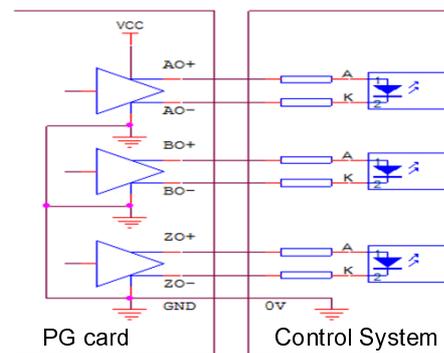


Figure 5 Differential pulse divider output wiring diagram