

diagram of signal interface for single-station system V.SSGS400

(All interfaces are prohibited from being energized until they are properly wired, please follow the wiring requirements and must be grounded before energized)

DC 24V positive power switch



External equipment is prohibited from taking power from the switching power supply, so as not to cause insufficient power supply to the system and system instability! The PE terminal of the switching power supply must be connected to the earth leakage protection line!

welding head

Motor cable 5m (Y axis)

wobble drive

note:
for $\pm 15V$ switching power supply V2 corresponds to -15V, COM corresponds to 0V, V1 corresponds to +15V

note:
Please ensure the correct wiring to avoid burning the internal circuit of the driver box, please reconfirm before powering on!
Do not connect other devices besides the driver box to the power supply, so as not to cause instability of the drive signal!

touch screen or host PC
touch screen cable (6-36V)
or (single station serial communication line)

When using the host PC to connect to the control box, the interface "host PC communication shorting interface" must be shorted! And re-power, then open the host PC software, select the right COM number to connect!
Use the matching serial screen, it does not need to be shorted! And make sure the port is disconnected!

External control welding & wobble start interface

This interface input starts at high level and stops at low level.
Level requirement: DC signal, 24V is high level, 0V is low level

note:

For specific wiring signal definitions etc., please refer to the manual. All wiring plugs must be screwed tight!

The base has a grounding screw, must be connected to the ground

wobble control (DB15)

Marking card DA card connection cable 5m

DC power cable

controller

power input

DC24V input

+24V (brown)
+24V (blue)
GND (yellow green)
PE

Reserved terminal, internally connected to the next +24V
Please wiring according to the correct power wiring sequence
PE yellow-green wire into the ground protection line

USB2.0 (Firmware version upgrade special interface)

3 pin 24V power wire

DC24V

gas enable Drive current limit below 400mA!

red light control Drive current limit below 200mA!

(NC1 and COM1 are off when no alarm occurs) (NC1 and COM1 are closed and on when an alarm occurs)

contact NC1
contact COM1
contact NO2
contact COM2

alarm output
OUT1
OUT2
(NO2 and COM2 are off when the output is not activated) (NO2 and COM2 are closed and on when the output is activated)

Relay passive contact output interface (Contact load: 1A 30VDC, external signal must not exceed this range to avoid damage to the relay) (external do not access inductive and capacitive loads, such as relays and other loads)
(OUT1 factory default as a vibrating mirror state output if you need to send wire enable output, please refer to the advanced parameters page to activate the switch)

(LASER CONTROL)

please ensure proper wiring

The input voltage must not exceed 24V!

External input control interface

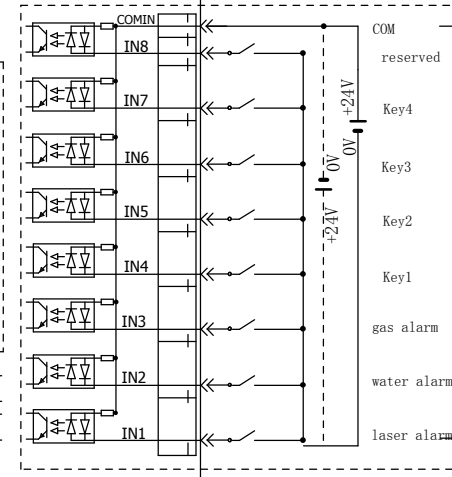
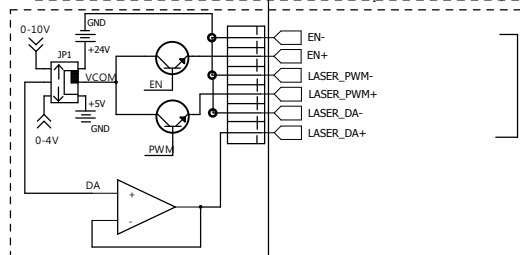
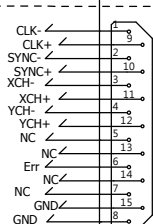
DC 24V switching level signal (Input interface supports drain type or source type connection (The signal line should not be connected to a resistor in series, the internal current limiting resistor has been integrated))

ON ON Valid
OFF OFF Failure

Please refer to the manual for specific function descriptions

External input interface

Port No.	Definition
COMIN	COM
IN8	RESERVED
IN7	Key4
IN6	Key3
IN5	Key2
IN4	Key1
IN3	GAS ALARM
IN2	WATER ALARM
IN1	LASER ALARM



Relay passive contact output interface
External load wiring reference diagram

(The load must be non-inductive and capacitive)

External power supply negative
External power supply positive

