

Ignition transformer IT



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CHARACTERISTICS

- For automatic ignition of burners.
- Used with the burner of single-electrode or double-electrode ignition/detection.
- Transformer IT: Enclosure: IP 20, and can be installed in the control box in facilities.
- Transformer ITB has terminals. With the enclosure protection class of IP65, it can be installed next to the burner.

APPLICATIONS

In modern industrial furnaces, the automatic ignition of burners is mostly realized by transformers. Ignition transformer provides a high voltage to creates ignition sparks between the spark electrode and grounding burner. The ignition is commonly controlled by burner controller, manual control is also available.

SPECIFICATION

Type table

Type	Input voltage/V	Input current/A	Output voltage/V	Output current/mA	Protection class
IT-5	220	0.45	5500	13	IP20
IT-8	220	0.45	7500	10.5	IP20
ITB-5	220	0.45	5500	13	IP65
ITB-8	220	0.45	7500	10.5	IP65

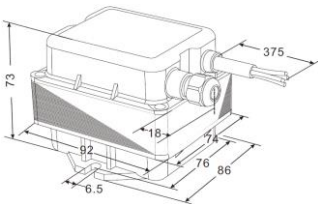
Dimensions

IT

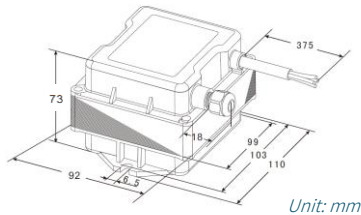
Enclosure: IP 20. Installed in the control box or transformer box with protection class higher than IP 54. Connected to controller or the relevant terminal row directly.



IT-5



IT-8

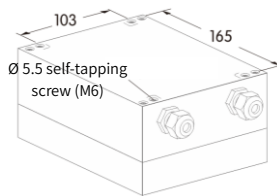
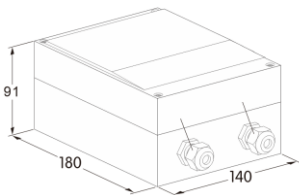


Unit: mm

ITB

Enclosure: IP65. ITB has a built-in IT transformer with terminals. And it could be installed next to burners directly.

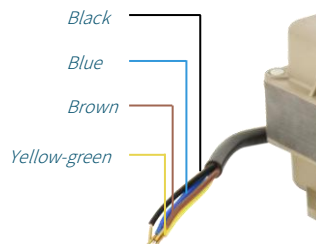
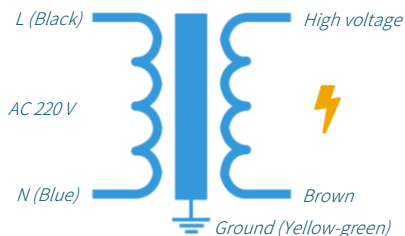
ITB-5/ITB-8



Unit: mm



WIRING



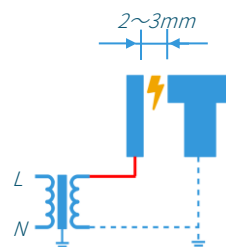
The blue and black wires are the power input.

To form a circuit, the brown wire shall be grounded and the high-voltage end shall be connected to the ignition electrode.

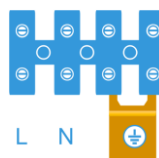
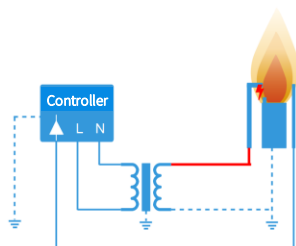


The electrode discharge gap: 2 ~ 5 mm, 2 ~ 3 mm recommended.

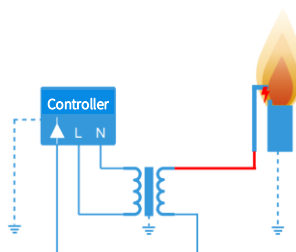
Strictly prohibit discharging without loads.



Double electrodes



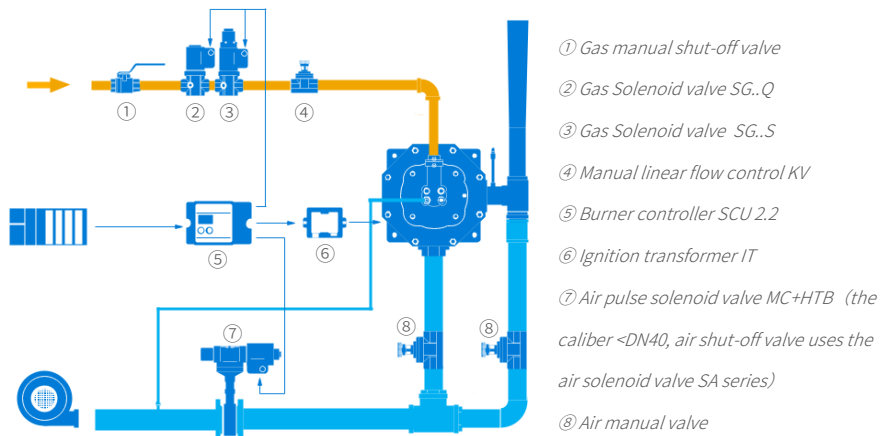
Single electrode



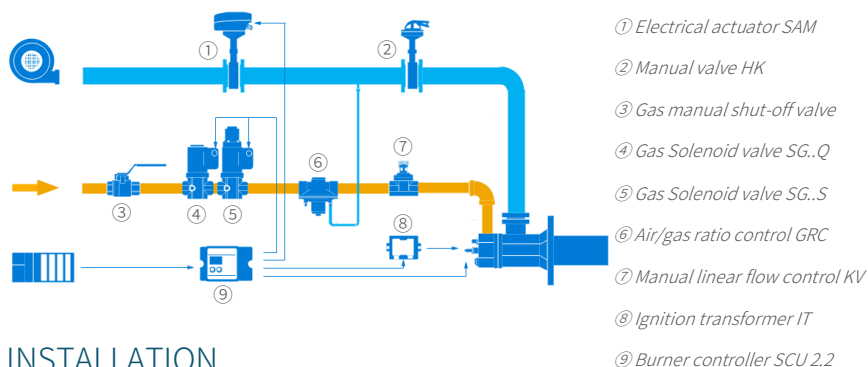
The ITB ignition controller has a built-in terminal row. when using double-electrode ignition/detection, the copper ground sheet must be connected between the two terminals on the right.

SOLUTIONS

Single-electrode ignition/detection



Double-electrode ignition/detection or UV sensor detection



INSTALLATION

Installation attention

- Installation position: next to the burner, and far away from heat source.
- Recommended ignition cable length: max. 5 m, recommended < 1.5 m.
- Ambient temperature range: -15~60 °C.

- Ensure that the wiring has been done correctly. The ground wire is grounded.
- High-voltage wire adopts a special silicone high-voltage line. The High-voltage wire must be routed individually along the shortest distance, prohibit to use metal plica pipes.
- A special ignition high-voltage cap is required.