Ignition transformer IT

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CHARACTERISTICS

- For automatic ignition of burners.
- Used with the burner for single-electrode or double-electrode ignition/detection.
- Enclosure of IT: IP 20, and needs be installed in the control box in facilities.
- 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 control unit, manual control is also available.

SPECIFICATION

Type table

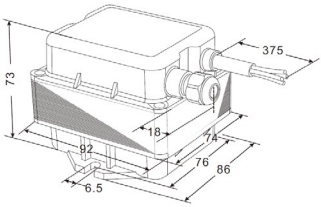
Type	Input voltage/V	Input current/A	Output voltage/V	Output current/mA	Protection class
IT-5	220	0.45	5000	13	IP20
IT-8	220	0.45	7500	10.5	IP20
IT-8S	220	0.97	7500	17	IP20
ITB-5	220	0.45	5000	13	IP65
ITB-8	220	0.45	7500	10.5	IP65
ITB-8S	220	0.97	7500	17	IP65

Dimensions

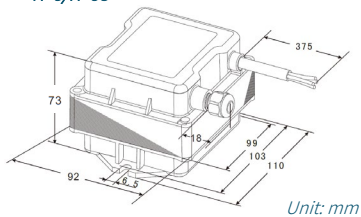
IT

Enclosure: IP 20. Installed in the control box or transformer box with protection class higher than IP 54. Connected to burner control unit or the relevant terminals directly.

IT-5



IT-8/IT-8S

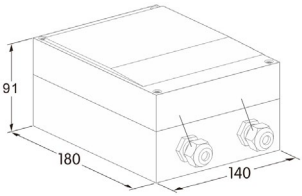


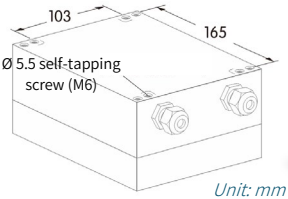
Unit: mm

ITB

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

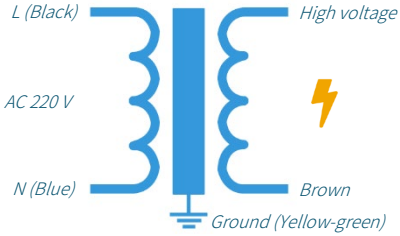
ITB-5/ITB-8/ITB-8S

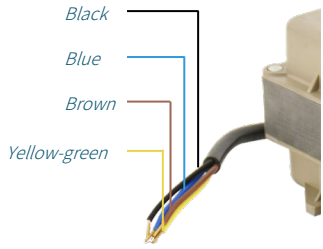




Unit: mm

WIRING



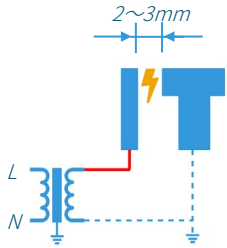


The blue and black wires are the power input.

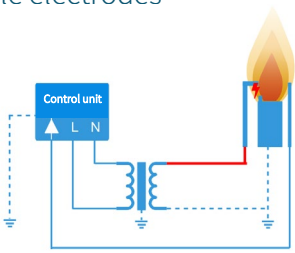
To form a circuit, the brown wire shall be grounded and the high-voltage wire shall be connected to the ignition electrode.

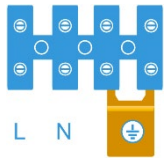
The electrode discharge gap: 2～5 mm, 2～3 mm recommended.

Strictly prohibit discharging without loads.

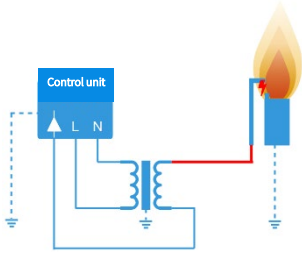


Double electrodes





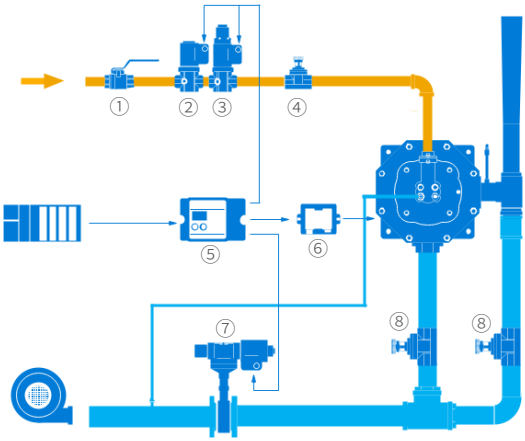
Single electrode



The ITB ignition transformer 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



① Gas manual shut-off valve

② Gas solenoid valve SG..Q

③ Gas solenoid valve SG..S

④ Manual linear flow control KV

⑤ Burner control unit SCU 2.2

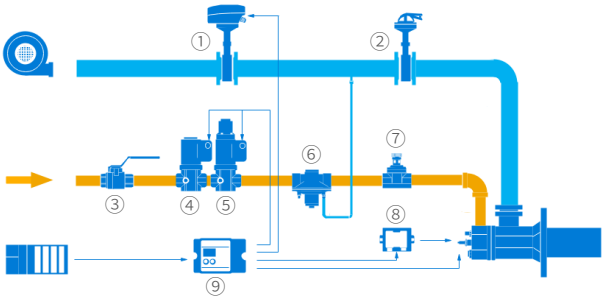
⑥ Ignition transformer IT

⑦ Air pulse solenoid valve MC+HTB

(Use SA series as air shut-off valve while DN<40)

⑧ Air manual valve

Double-electrode ignition/detection or UV sensor detection



① Electrical actuator SAM

② Manual valve HK

③ Gas manual shut-off valve

④ Gas solenoid valve SG..Q

⑤ Gas solenoid valve SG..S

⑥ Air/gas ratio control GRC

⑦ Manual linear flow control KV

⑧ Ignition transformer IT

⑨ Burner control unit SCU 2.2

INSTALLATION

Installation attention

- Installation position: next to the burner, and far away from heat source.
- Ignition cable length: max. 5 m, recommended < 1.5 m.
- Ambient temperature: -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.