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**BRAHMA**  
components and systems for heating

## TSC Brahma

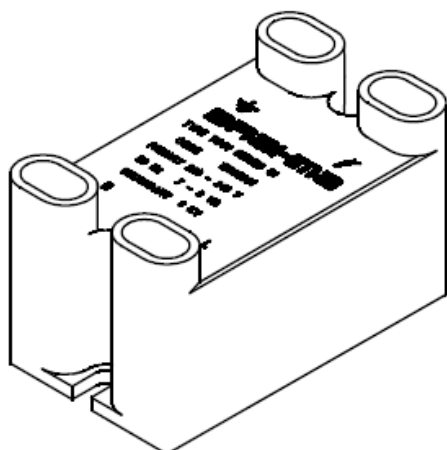
Description:  
Capacitive-discharge ignitors for atmospheric burners

Characteristics:  
Reduced overall dimensions and weight; different series depending on discharge energy, power supply and discharge voltage are available

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# TSC... SERIES

## CAPACITIVE-DISCHARGE IGNITORS



### DESCRIPTION

The devices of this series are capacitive-discharge ignitors for continuous operation, suitable for gas combustion in atmospheric burners. The available types essentially differ for their spark frequency and its energy; remember that the ignition power of a capacitive-discharge ignitor is directly proportional to its discharge energy.

Thanks to its high discharge energy the TSC1 is suitable even for the applications in which normal capacitive-discharge ignitors are not effective. The plastic case and an internal epoxy resin casting grant an adequate insulation.

### Notes:

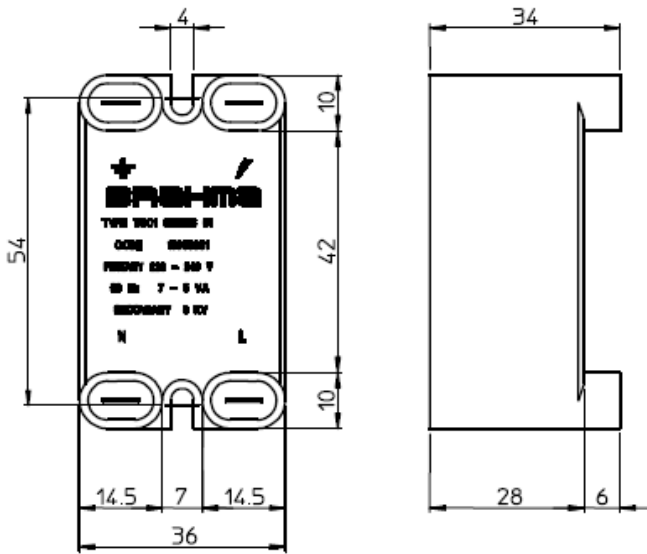
- Remember that an excessively long ignition cable connected to the ignitor can lead to a discharge energy reduction, because of the production of a parasitic capacity between the cable and the nearby ground planes.
- Avoid laying the ignition cable next to other conductors: energy transfer between close conductors due to parasitic capacity phenomena could damage connected devices, especially the electronic ones.

### TECHNICAL FEATURES

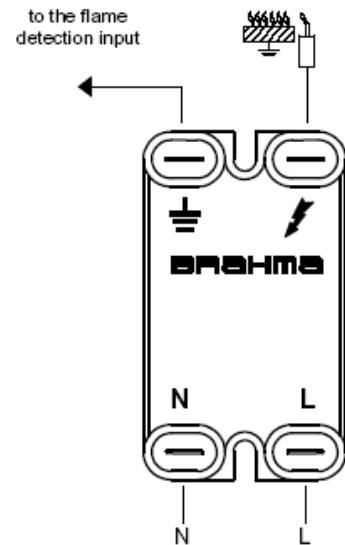
- Operating temperature range: -20°C +60°C
- Protection degree: IP20
- Recommended distance between the electrodes:
  - 5 mm -> TSC1 220-240 V 50 Hz
  - > TSC 220-240 V 50-60 Hz
  - > TSC1 110-120 V 50-60 Hz
  - > TSC1/F 220-240 V 50-60 Hz
  - 1 mm -> TSC1/Z 110-120 V 50-60 Hz
- Max. supply cable length: 1 m
- Max. ignition cable length: 2 m
- Duty cycle: 100%
- Weight: 80 gr
- High voltage connectors: fast-on 2,8x0,5
- Supply connectors: fast-on 6,35x0,8

Type	Power supply	Available discharge voltage	Discharge frequency	Discharge energy	Power consumption
TSC	220-240Vac 50-60Hz	20kV	25Hz	2mJ	2 VA
TSC1	220-240Vac 50Hz	20kV	50Hz	9mJ	7,5VA
TSC1	110-120Vac 50-60Hz	20kV	50Hz	3mJ	4VA
TSC1/Z	110-120Vac 50-60Hz	10kV	50Hz	6mJ	4VA
TSC1/F	220-240Vac 50-60Hz	20kV	50Hz	8mJ	7,5VA

## OVERALL DIMENSIONS



## CONNECTION DIAGRAMS (MONOELECTRODE)



## INSTALLATION

- Connect and disconnect the ignition transformer only after switching off power supply.
- Respect the applicable national and European standards (e.g. EN 60355-1 / EN 50165 / EN 61558-1-2-3) regarding electrical safety.
- Make sure the earth of the transformer and the earth of the electrical system are well connected. The device can be mounted in any position.
- Avoid placing high voltage cables close to other cables.
- Make sure the protection degree is suitable to the system.
- Reduce the ignition cable length to a minimum (this reduces stray capacitance and the possibility that the ignition cable acts like an antenna transferring interference to the nearby cables).
- Make ignition cables follow a separate path close to ground planes (this reduces the influence of interference on the remaining electrical wires).
- Arrange a single earth centre, thus preventing earth conductors from creating ring paths.

## CONNECTION

- The power supply connection occurs by means of 6,3X0,8 fast-on connectors; the high voltage part is connected by means of 2,8X0,5 fast-on connectors..

## CONNECTION DIAGRAMS (BIELECTRODE)

