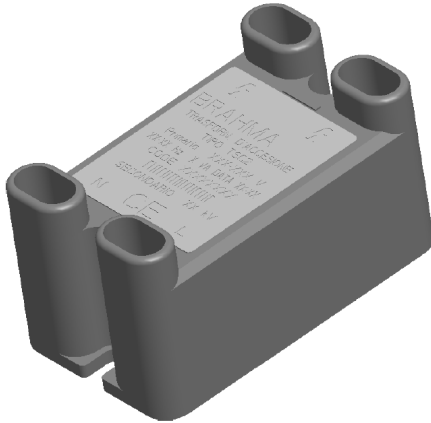


# IGNITION TRANSFORMER TYPE TSC2

## CAPACITIVE-DISCHARGE IGNITOR



### DESCRIPTION

The devices of this series are capacitive-discharge ignitors for continuous operation, suitable to generate gas combustion in atmospheric burners. The plastic casing and an internal epoxy resin casting grant adequate insulation.

### Notes:

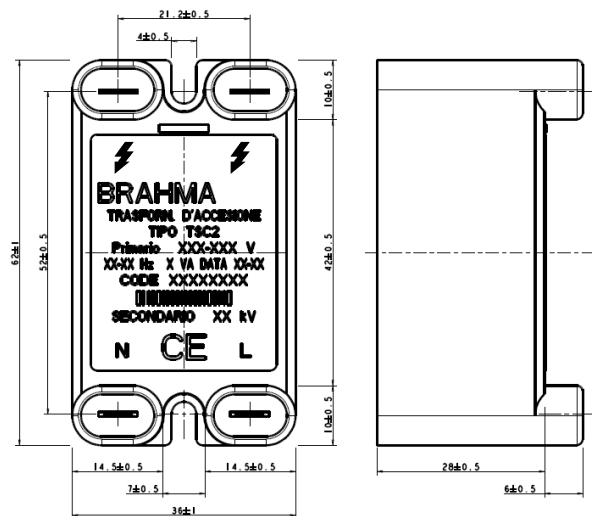
- Remember that a too long ignition cable connected to the ignitor can lead to a discharge energy reduction, because of the production of stray capacitance between the cable and the nearby ground planes.
- Avoid laying the ignition cable next to other conductors: energy transfer between close conductors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

### TECHNICAL FEATURES

- Operating temperature range -20°C +60°C
- Protection rating IP20
- Recommended distance between electrodes 3-5mm
- Power supply cable max. length 1 m
- Ignition cable max. length 2 m
- Duty cycle 100%
- Weight 80 gr
- High voltage connectors fast-on 2,8x0,5
- Power supply connectors fast-on 6,35x0,8

Type	Power supply	Available spark voltage	Spark frequency	Spark energy	Power consumption
TSC2	220-240Vac 50-60Hz	20kV	25Hz	0,5mJ	3 VA

### OVERALL DIMENSIONS



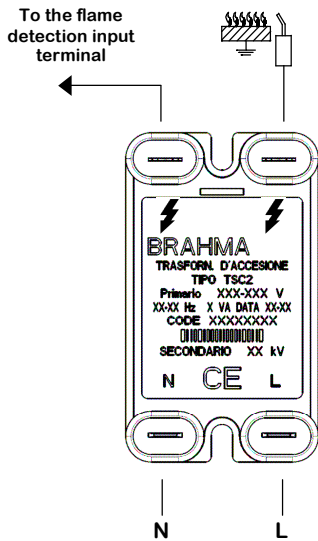
**INSTALLATION**

- Connect and disconnect the ignition transformer only after switching off the power supply.
- Respect the applicable national and European standards regarding electrical safety (e.g. EN 60355-1 / EN 50165 / EN 61558-1-2-3).
- Make sure that the earth of the transformer and the earth of the electric 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 rating is suitable to the system.
- Reduce the ignition cable length to a minimum (this reduces stray capacitance and the possibility that the ignition cable may act like an antenna transferring interference to nearby cables).
- Make ignition cables follow a separate path close to ground planes (this reduces the influence of interference on the remaining electric wires).
- Arrange a single earth centre, thus preventing earth conductors from creating ring paths.

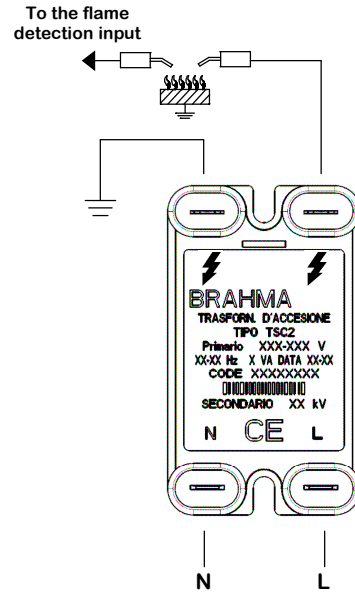
**CONNECTION**

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

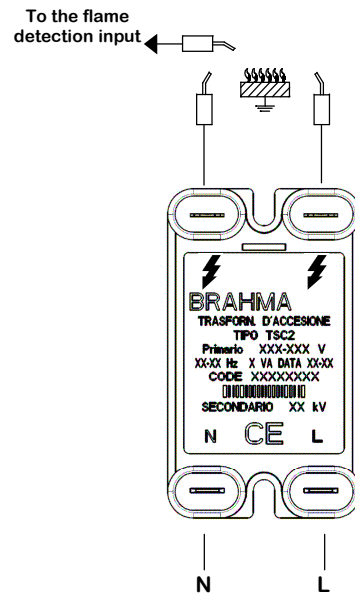
**CONNECTION DIAGRAM FOR MONOELECTRODE APPLICATIONS**



**CONNECTION DIAGRAM FOR DOUBLE-ELECTRODE APPLICATIONS**



**CONNECTION DIAGRAM FOR THREE-ELECTRODE APPLICATIONS**



**ATTENTION --> Company Brahma S.p.A. takes no responsibility for any damage resulting from Customer tampering with the device.**

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