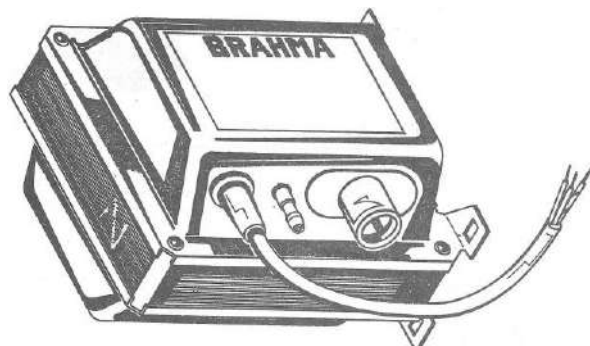
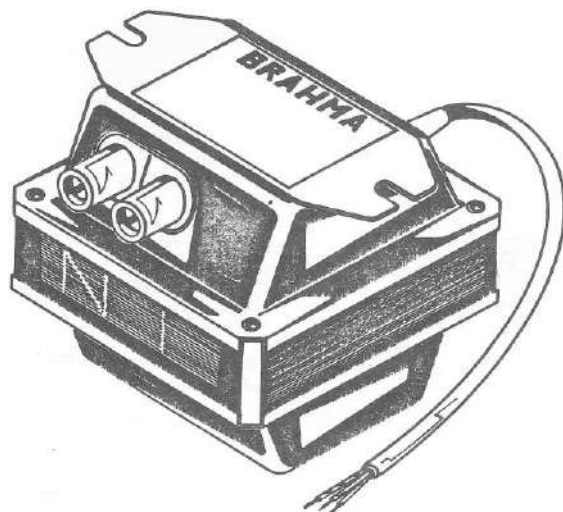


# IGNITION TRANSFORMERS

## Type T11 and T13



## Type T16 and T17



### DESCRIPTION

Ignition transformers series **T11** and **T16** are suitable for fluid or gaseous fuel burners.

Ignition transformers series **T13** and **T17**, with 100% duty-cycle, are particularly suitable for the application on industrial machines (e.g. water cleaners).

### FEATURES

Followings are the main features of this series:

- various connection and fixing systems;
- high discharge power (they are particularly suitable in all those applications in which long ignition wires are required);
- high efficiency and ignition power.

### TECHNICAL DATA

- **Supply voltage:** 220V - 50Hz  
(different voltage and frequency values are available on request)
- **Operating temperature range:** -10°C +35°C
- **Isolation:** polyester resin
- **Recommended distance between the electrodes:** 3 ÷ 5 mm
- **Supply cable standard length:** 550 mm

	T11/...	T13/...	T16/...	T17/...
Number of poles	1	1	2	2
Output peak voltage (KV) <sup>(1)</sup>	1 x 15	1 x 12	2 x 8	2 x 6
Output effective voltage (KV) <sup>(1)</sup>	1 x 9	1 x 8	2 x 5	2 x 4
Output effective current (mA) <sup>(2)</sup>	20	16	20	15
Input effective current (A) <sup>(2)</sup>	1,1	0,65	1,1	0,6
Duty cycle	33% in 3 minutes	100%	33% in 3 minutes	100%
Power consumption (VA)	240	145	240	140
Weight (Kg)	2	2	2	2

(1) : no-load output

(2) : short circuit secondary.

### CONSTRUCTION

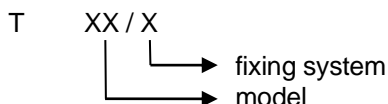
The magnetic circuit across the transformer is mantle-shaped (see general features in Figure 1 and Figure 2).

The secondary windings are center grounded.

The transformer is provided with a radio interference suppression shield, which for its effectiveness must be connected to a good ground.

Two fire painted caps cover the coils and form a whole with the magnetic circuit.

Each transformer is detected by the fixed letter T (transformer), by a series of numbers that indicate the model and possibly by a letter of the alphabet which determines a particular fixing system:



If the fixing system used is standard, the corresponding reference letter is not inserted in the part reference.

For instance, the part reference T11 refers to a transformer with standard fixing system, whereas the part reference T11/N corresponds to a T11 transformer with different fixing system (see table 1, type N).

The transformers of this series can have the same electric features but different fixing systems, or vice versa.

## OVERALL DIMENSIONS

Figures 1 and 2 show the main overall dimensions and Table 1 the various transformers fixing systems.

## CONNECTION

The high voltage isolators employed in this series of transformers are of two different types, according as the connection with high voltage cables occurs by means of a screw, 4 mm diameter cylindrical terminal or of a 6.3 mm diameter cylindrical terminal.

If not expressly mentioned, the connection terminal used is a screw terminal. The insulators are made of PBT 30% glass fiber.

## INSTALLATION

- Caution! There might be dangerous voltages.
- Connect and disconnect the ignition transformer only after switching off the power supply.
- Respect the applicable national and European standards (e.g. EN 60335-1 / EN 60335-2-102) regarding electrical safety.
- Make sure that the earth of the transformer and the earth of the electric system are well connected.
- Arrange a single earth center, thus preventing earth conductors from creating ring paths.
- The device can be mounted in any position.
- 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).
- Avoid placing high voltage cables close to other cables.
- Make sure the protection degree is suitable to the system.

### T11/... - T13/...

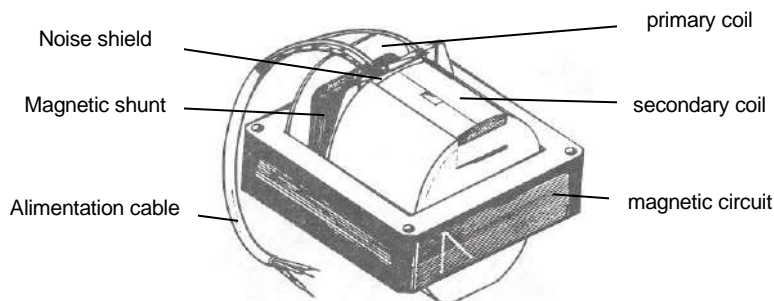
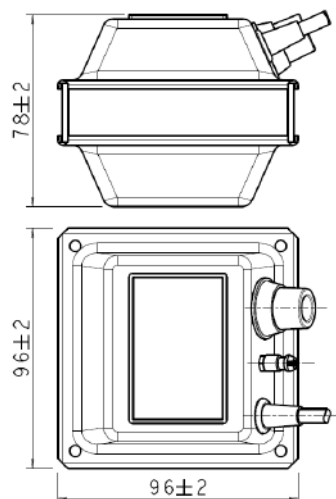


Figure 1

### T16/... - T17/...

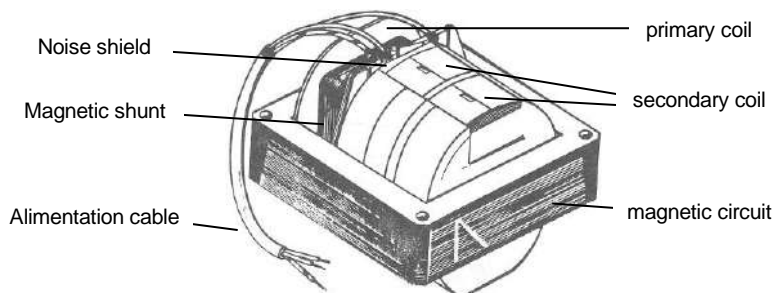
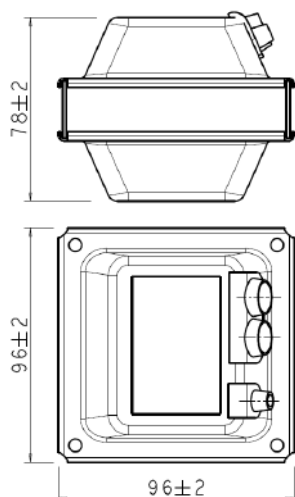


Figure 2

**FIXING SYSTEMS**

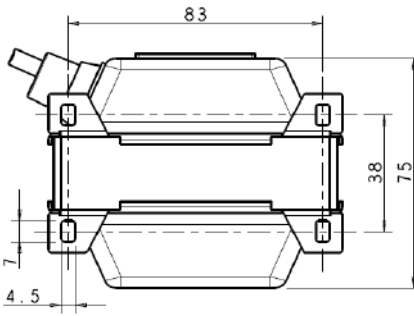
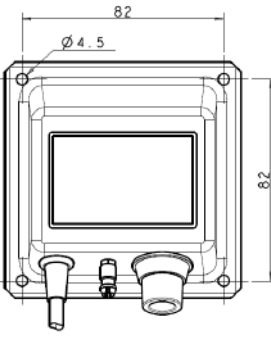
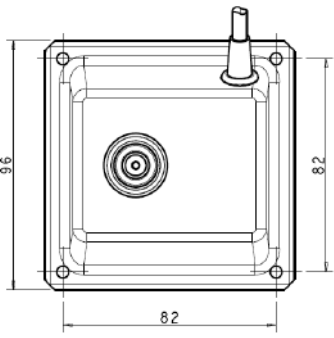
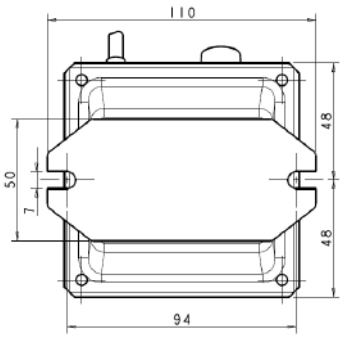
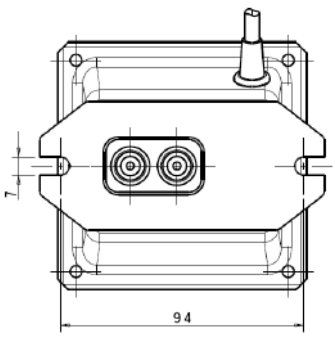
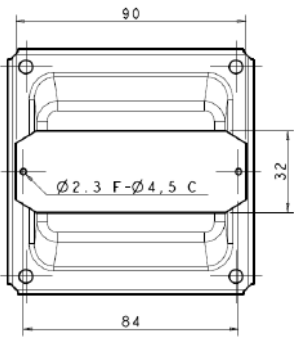
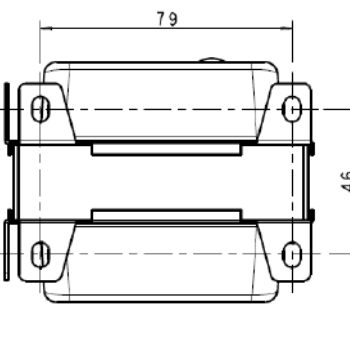
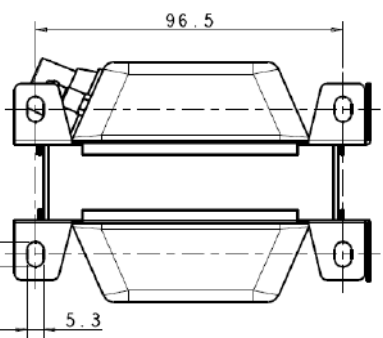
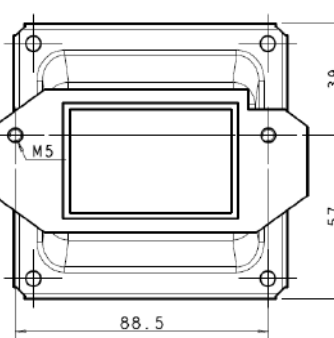
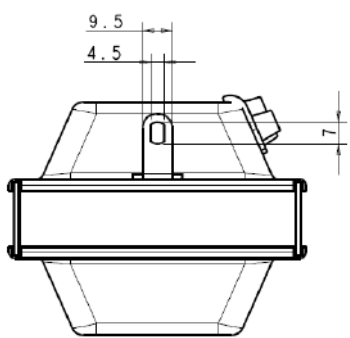
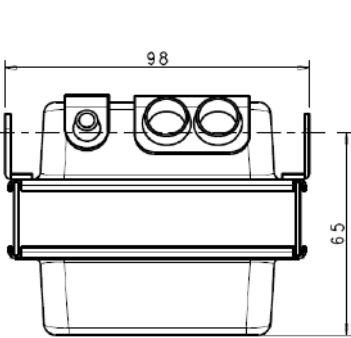
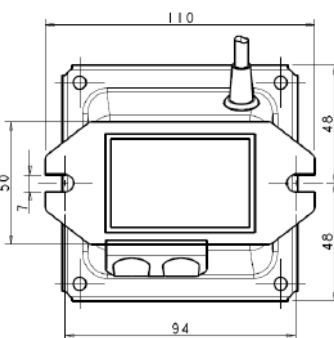
 <p style="text-align: right;"><b>T.../B</b></p>	 <p style="text-align: right;"><b>T.../N</b></p>	 <p style="text-align: right;"><b>T.../NC</b></p>
 <p style="text-align: right;"><b>T.../M</b></p>	 <p style="text-align: right;"><b>T.../MC</b></p>	 <p style="text-align: right;"><b>T.../F - T.../C</b></p>
 <p style="text-align: right;"><b>T.../R</b></p>	 <p style="text-align: right;"><b>T.../RC</b></p>	 <p style="text-align: right;"><b>T.../AN</b></p>
 <p style="text-align: right;"><b>T.../W</b></p>	 <p style="text-align: right;"><b>T.../W</b></p>	 <p style="text-align: right;"><b>T.../AN</b></p>

Table 1

**Note :** The images are representative and should therefore be considered only for fixing purpose.


**NOTES ABOUT PRODUCT DISPOSAL**

The device contains electronic components and cannot therefore be disposed of as normal household waste. For the disposal procedure, please refer to the local rules in force for special waste.

**ATTENTION -> Brahma S.p.A. accepts no responsibility for any damage resulting from customer tampering with the product.**

**BRAHMA S.p.A.**

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