

## Ignition spark generator

**For atmospheric gas burners.  
Mains and high-voltage cables with plug  
connectors.**



### INTRODUCTION

The ZT 870 ignition spark generator is suitable for use with for fully automatic ignition of atmospheric gas burner systems.

### CONSTRUCTIONAL FEATURES

The transformer windings and the controlling electronics are contained in a temperature and impact resistant plastic housing, and sealed in a PU resin material which provides optimal protection from dampness and dirt. One of the two mounting lugs is also designed to provide the earth/ground connection. Plug connectors for the mains and high voltage cables allow quick and simple installation.

### DESCRIPTION OF OPERATION

An electronic circuit produces approx. 50/60 sparks per second. The voltage of these sparks is increased by the transformer to approx. 16 kV.

The secondary voltage as well as the spark energy are independent of the mains frequency and mains voltage.

A reduction in the mains voltage simply causes the spark rate to drop, or respectively, to rise, should the mains voltage be too high.

Interference to ionisation flame detection is avoided by the very short spark interval and also by the stability of the ignition spark.

### INSTALLATION INSTRUCTIONS

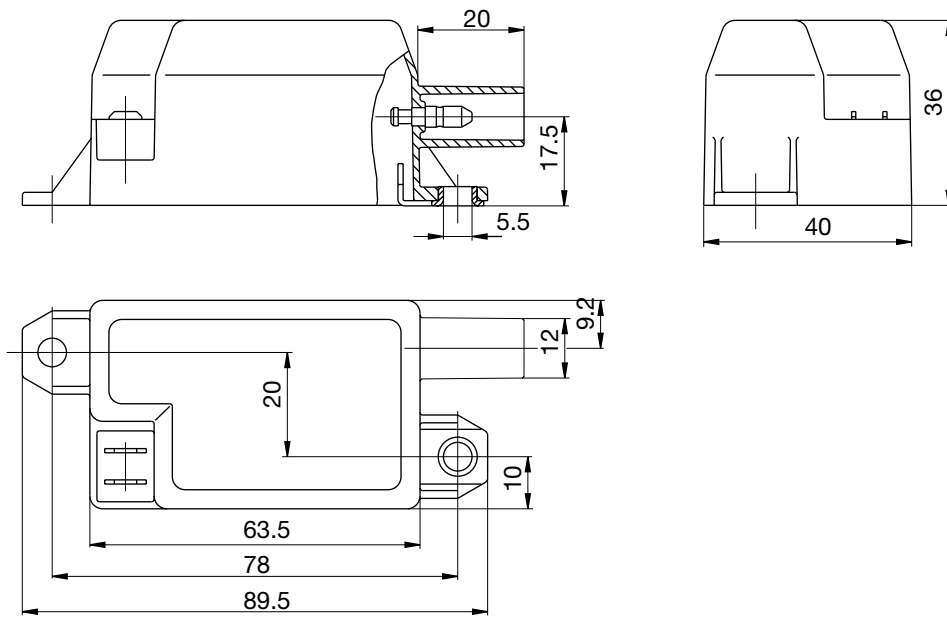
The applicable installation regulations must be observed when mounting and wiring the unit.

The ignition cable should be kept as short as possible in order to avoid radio interference and a drop in performance. The compact dimensions and simple installation procedure allows the ZT 870 ignition spark generator to be positioned close to the ignition electrode.

### TECHNICAL DATA

|                                 |  |
|---------------------------------|--|
| Supply voltage                  | 220 / 240 V (-15... +10%)<br>50 / 60 Hz    |
| or                              | 110 / 120 V (-15... +10%)<br>50 / 60 Hz    |
| Connections:                    |  |
| Live / neutral                  | Satronic 2-pin angled plug                 |
| Earth                           | Mounting plug                              |
| High voltage                    | ø 4 mm plug                                |
| Power consumption               | 17 mA (220 / 240 V)                        |
| or                              | 22 mA (110 / 120 V)                        |
| Switched on time                | 50% in 3 min.                              |
| Interference level              | meets EN 55014                             |
| Ignition voltage                | 16 kV (amplitude)                          |
| Ignition current                | 200 mA (amplitude)                         |
| Spark frequency                 | Approx. 50 / 60 Hz                         |
| Energy per spark                | 4 mJ                                       |
| Spark gap                       | 2... 5 mm                                  |
| Ignition cable                  | Silicone, ø 7 mm<br>Standard length, 30 cm |
| Insulation standard             | IP 40                                      |
| Permissible ambient temperature | -20° C... +60° C                           |
| Mounting attitude               | any  |
| Weight                          | 220 g                                      |

## ZT 870 DIMENSIONS



## ORDERING INFORMATION

| ITEM                   | DESIGNATION                 | ITEM NO. |
|------------------------|-----------------------------|----------|
| Ignition transformer   | ZT 870                      | 13000    |
| or                     | ZT 870 110V                 | 13010    |
| Mains cable            | ZT 870 supply cord 0.3 m    | 7293001  |
| Ignition cable         | ZT 870 ignition cable 0.3 m | 72730    |
| Alternative ign. cable | ZT 870 ignition cable 1 m   | 72710    |

The above ordering information refers to the standard version.  
Special versions are also included in our product range.

Specifications subject to change without notice.

# ZT 870

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