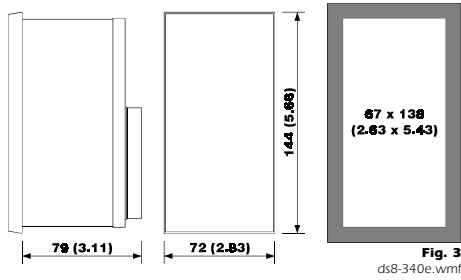


## DIMENSIONAL DATA

### OVERALL DIMENSIONS AND PANEL CUTOUT

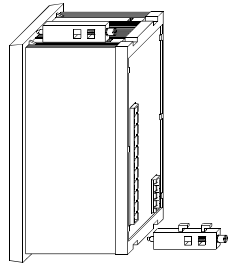
The dimensions are expressed in millimetres and inches (fifth-scale drawing).



## INSTALLATION

### WITH THE FIXING SYSTEM SUGGESTED BY THE BUILDER

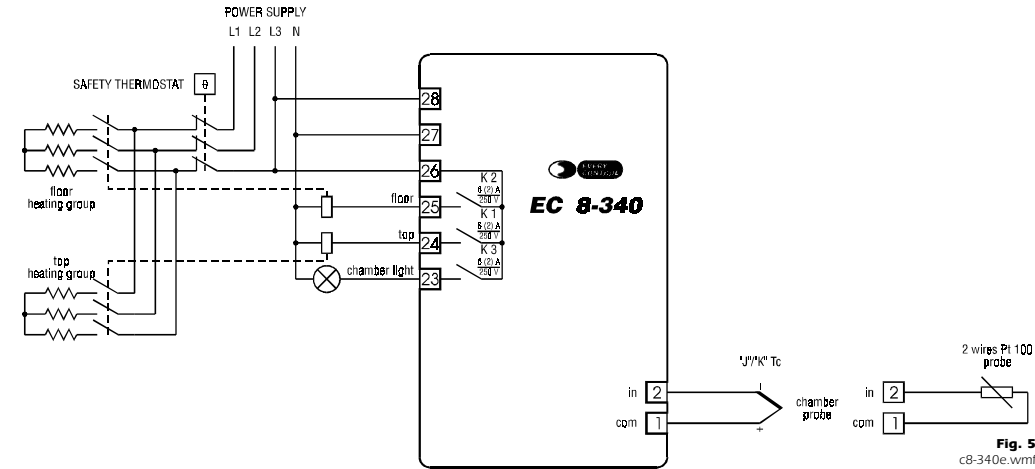
Panel mounting, with the equipped screw brackets (fifth-scale drawing).



## ELECTRICAL CONNECTION

### CONNECTIONS TO DERIVE

Instance of typical application.



## BUILDER DATA

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# EC 8-340

## ON-OFF digital controller for electrical pizza ovens with separated top and floor power regulation

Operating instructions

Release 1/00 of April the tenth 2000

Code EC 8-340 DOC E001

File: 8340e.p65

### IMPORTANT:

**The use of this new instrument is easy; but for safety reasons, it is important read these instructions carefully before the installation or before the use and follow all additional informations.**

**It is very important keep these instructions with the instrument for future consultations.**



## GENERAL INFORMATIONS

### WHAT IS THE USE

EC 8-340 is an ON-OFF digital controller studied for electrical pizza ovens management which basic characteristics are the separated top and floor power regulation and the "ON STAND-BY" key; through the keys present on the instrument frontal panel it is possible to operate on other functions as the chamber light control and on the "quick heating" function (it is studied to reach the working setpoint in the shortest time excluding the power choking).

In factory the instrument gets preset to accept at the measure input "J"/>

EC 8-340 is available in the 72 x 144 mm (2.83 x 5.66 in.) case and it is studied for panel mounting with the equipped screw brackets.

## GETTING STARTED

### INSTALLATION

EC 8-340 was studied for panel mounting, panel cutout 67 x 138 mm (2.63 x 5.43 in.), with the equipped screw brackets (the overall dimensions and the panel cutout are related in Fig. 3, the fixing system suggested by the builder is related in Fig. 4).

### ADDITIONAL INFORMATIONS

- the panel thickness must be included from 1 to 5 mm (0.04 to 0.19 in.)
- verify if the using conditions (ambient temperature, humidity, etc.) are within the limits indicated by the builder (see the chapter TECHNICAL DATA)
- install the instrument in a location with a suitable ventilation, to avoid the internal overheating of the instrument
- do not install the instrument near surfaces that can obstruct the air-grating (carpets, covers, etc.) heating sources (radiators, hot air ducts, etc.), locations subject to direct sunlight, rain, humidity, excessive dust, mechanical vibrations or bumps, devices with strong magnetos (microwave ovens, big speakers, etc.)
- according with the safety norms, the protection against possible contacts with electrical parts and parts protected with functional insulation only must be ensured through a correct installation procedure of the instrument; all parts that ensure the protection must be fixed so that they can not be removed if not with a tool.

### ELECTRICAL CONNECTION

EC 8-340 is provided with two extractable screw terminal blocks for cables up to 2.5 mm<sup>2</sup> (0.38in.<sup>2</sup>, for the connection to the power supply, measure input and outputs) located on the instrument back panel (the connections to derive are related in Fig. 5 and they are checkable on the polyester label stuck on the instrument case).

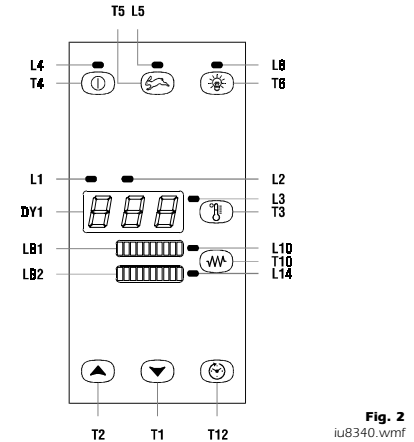
### ADDITIONAL INFORMATIONS

- if the instrument is brought from a cold to a warm location, the humidity may condense inside the instrument; wait about an hour before supply the instrument
- verify if the operating power supply voltage, electrical frequency and power of the instrument correspond to the local power supply (see the chapter TECHNICAL DATA)
- do not supply more instruments with the same transformer
- if the instrument is installed on a vehicle, its power supply must be derived directly from the battery of the vehicle
- give the instrument a protection able to limit the current absorbed in case of failure
- the instrument remains connected to the local power supply as long as the terminals 27 and 28 are derived to the local power supply, even if the instrument is apparently turned off
- if the instrument is supplied from low voltage use low voltage loads
- give the probe a protection able to insulate it against possible contacts with metal parts or use insulated probes
- give the outputs a protection able to protect them against short circuit and overload
- do not try to repair the instrument; for the repairs apply to highly qualified staff
- if you have any questions or problems concerning the instrument please consult Every Control (see the chapter BUILDER DATA).

## USE

### PRELIMINARY INFORMATIONS

After derived the connections related in Fig. 5, the instrument repropose the last settings stored.



Keeping pushed for two seconds at least the key T4 the instrument turning ON (status ON) or turning OFF (status STAND-BY), except during the setting procedures; the LED L4 is associated to the instrument status, it is turned ON during the status STAND-BY and it is turned OFF during the status ON.

During the status STAND-BY the displays and the LED bars are turned OFF and all outputs are forced to the status OFF.

During the status ON, in the course of the normal functioning the display DY1 displays the temperature read by the chamber probe, the LED bar LB1 displays the percentage of power given to the output K 1 and the LED bar LB2 displays the percentage of power given to the output K 2; if an alarm should be active the display DY1 displays the alarm code flashing and the buzzer utters an intermittent beep as long as the cause that has given it does not disappear (see the chapter SIGNALS AND ALARMS); pressure on the key T1 during an alarm permits to silence the buzzer.

EC 8-340 is provided with one working setpoint and with some configuration parameters that get stored in a non volatile memory and that permit to set the instrument according with one's requirements (see the chapter CONFIGURABILITY).

The output K 1 is associated to the top and to the working setpoint, it gets activated with cyclical modality as long as the temperature read by the chamber probe reaches the working setpoint and when it falls below the working setpoint of the hysteresis value (differential) the output gets reactivated with cyclical modality.

The output K 2 is associated to the floor and to the working setpoint, it gets activated with cyclical modality as long as the temperature read by the chamber probe reaches the working setpoint and when it falls below the working setpoint of the hysteresis value (differential) the output gets reactivated with cyclical modality.

During the cyclical modality, in the course of the cycle time for the outputs activation, the outputs K 1 and K 2 remain activated continuously but as much as possible alternatively for a time proportional to the percentage of power given to the outputs K 1 and K 2.

The output K 3 is associated to the chamber light: pushing and releasing the key T6 the output

