OVEN THERMOCOUPLES
Safety Guarantee

Safety in the home, also obtained through an appropriate use of gas cooking appliances, is the object of growing concern among government bodies and international organizations. The thermocouple-magnet device, is, today, the most widely used solution to guarantee safety. Its strength, which lies in the simplicity of the working system and in the small number of components of the electric circuit in which it is inserted, makes it the most efficient and economic surveillance system amongst those available on the market.

Flexibility of Use

CastFutura supplies thermocouples to the market which are able to equip each type of burner and to combine with any type of magnet, thanks to the vast range of temperature sensors with different levels of sensiteveness. Switch on time in one second as well as switch off time between 15 and 30 seconds, well below the requirement of the norms in force and in line with strictest market requirements, are obtained.

Adverse Conditions

Our thermocouples satisfy very exacting conditions of temperature and flame permanence. Every day, millions of alternate thermic cycles carried out in the laboratory confirm the level of reliability.

Range Extension

Dedicated typologies for various applications are available: tubular thermocouples, special interrupted models for applications with thermostats or electronic control, oven double wire with fast connections (jack, minijack, faston). The body for fastening the thermocouple can be personalized based on the type of burner and fast coupling connections or faston are available for connecting with any type of valve.

Operative Conditions

CastFutura has always understood the importance of having an advanced laboratory for the development and set-up of thermocouples which are perfectly calibrated for any operative condition. Thanks to this the offer today covers the most varied conditions of use, including its operation with any kind of gas. The tension-temperature graph allows for the choice of the most suitable type of hot joint, already during the development stage, based on the temperature detected on the tip of the thermocouple and the type of magnet used.
**DOUBLE WIRE**

The double wire thermocouple is indicated for gas ovens. The copper tubular part remains inside the cavity, guaranteeing mechanical and thermic protection to the phase wire and protecting it in its passage through the metal plate. Compared to the tubular models it has the advantage of cabling flexibility, favouring the speed of assembly.

**TUBULAR**

The tubular thermocouple can be used for both gas ovens and gas burners with a pilot flame, or in ovens in which a connection thread to the thermostat is foreseen. Its reliability also allows for it to be applied on hobs.

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**Product Pluses**

1. Vast range of bodies which can be customized according to the type of use required.
2. Variety of sensitive elements, for both long flame permanence and rapid connection.
3. Flexibility of use and rapid assembly thanks to last generation connections.
4. The copper tube protects the central phase wire; the flexibility of the conductors facilitates cabling.
5. Guaranteed high standards of a manufacturing process consolidated over the last twenty years.
DOUBLE SAFETY

The application of the double safety concept is obtained through the welding of an incorporated thermostat to the circuit, directly in manufacturing. In this way loss of signal, which would weaken the working of the thermocouple, is totally avoided.

In this way too a double effect is obtained:
1. Switch-off of the gas valve in case the flame goes out. Typical function of the thermocouple.
2. Switch-off of the gas valve in case of faulty functioning, when temperature exceeds safety limit outside the cavity of the oven. New safety function.

In such a way a notable improvement of safety functionality is obtained. From this comes the expression “Double Safety”.

CERTIFICATION CSA

CastFutura holds CSA certification. The sale of its products is therefore also authorized for the American market.

Certificate of Compliance

Certificate: 1605190
Project: 1605190
Issued to: CAST S.p.A.
Address: Via Biancacone, 39, 20090, Terni (ITALY)
Issue Date: 2015/07/31

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators “C” and “US”

Issued by: [Signature]
Authorized by: [Signature]
Tomas Fierro, Manager of Certification Services

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