Flame sensor spare part

CODE

20132573

1

General warnings

1.1 Guarantee and responsibility

The rights to the guarantee and the responsibility will no longer be valid in the event of damage to things or injury to people, if such damage/injury was due to any of the following causes:

- intervention of unqualified personnel;
- carrying out of unauthorised modifications on the appliance;
- powering of the burner with unsuitable fuels;
- faults in the fuel supply system:
- repairs and/or overhauls incorrectly carried out;
- use of non-original components, including spare parts, kits, accessories and optionals;
- force majeure.

The manufacturer furthermore declines any and every responsibility for the failure to observe the contents of this manual.

- Personnel must always use the personal protective equipment envisaged by legislation and follow the indications given in this manual.
- Personnel must observe all the danger and caution indications shown on the machine.
- Personnel must not carry out, on their own initiative, operations or interventions that are not within their province.
- Personnel must inform their superiors of every problem or dangerous situation that may arise.

1.2 Notes on safety for the installation



It is obligatory to carry out all installation, maintenance and dismantling operations with the electrical supply disconnected.



After removing all the packaging, check the integrity of the contents. If in doubt, do not use the spare parts kit; contact the supplier.



Isolate the fuel supply.



Wait for the components in contact with heat sources to cool down completely.



The installation must be carried out by qualified personnel, as indicated in this manual and in compliance with the standards and legal requisites in force.



After carrying out maintenance, cleaning or checking operations, reassemble the cover and all the safety and protection devices of the burner.

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2 Flame sensor spare part

2.1 Kit description

The flame sensor, featuring semiconductor technology. completely replaces the cadmium oxide CdO or photocell sensors, in accordance with the following directives:

- 2002/95/EC RoHs Directive
- 2011/65/EC Directive as RoHs2

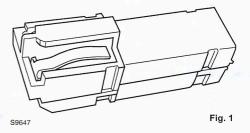
The kit is composed of:

. No. 1

Instruction booklet No. 1



The new flame sensor is polarised, therefore it is important to pay close attention to the replacement procedure, as set out on page 2 of this manual.



2.2 Compatibility

New spare part Flame sensor	Replaces Spare part Photocell	Direct connection to RIELLO Control boxes	IMPORTANT Other control boxes	
20132573	3002280	530 SE		
		531 SE		
		530/B SE	LAL LMO LOA RMO 503 SE	
		531/B SE		
		479 SE		
		539 SE		
		531/E SE		
		531/E1 SE		
		554 SE		
		555 SE		

Tab. A

NOTE:

Spare part N. 20132573 is not suitable for use with control boxes other than those indicated in Tab. A

2.3 Use with PRESS range N/N-ECO/TG/TN/GW/GBW/G type burners

2.3.1 Wiring check and flame sensor installation procedure

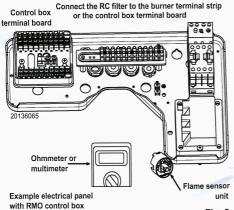
The new flame sensor is polarised, therefore it is important to pay close attention to the following procedure in order to identify the poles correctly on the control box terminal board.

- remove the burner cover by loosening the fixing
- identify the control box and unscrew the fixing screws; remove the control box from its housing;



Disconnect the burner from the power supply!

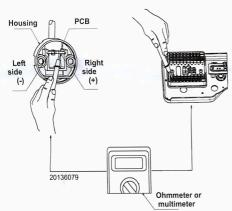
Flame sensor spare part



- Fig. 2
- extract the sensor from the flame sensor unit (Fig. 2);
 identify the left and right-hand sides of the printed circuit board inside the flame sensor case (Fig. 3);
- using a multimeter, check that the polarity of the wires is correct, with reference to Tab. B. If necessary, swap the wires on the terminal board;
- check continuity in order ensure correct polarity, as indicated in Tab.4;
- insert the replacement flame sensor in the adaptor (Fig. 3);
- position the control box on the terminal board, taking care not to crush the electrical wires;
- tighten the fixing screws on the control box;
- position the burner cover and tighten the screws;
- switch the burner on and check the operating cycle.



Once the installation procedure has been completed, replace the cover and all the burner safety and protection devices.



Check continuity in order to ensure correct polarity, as indicated in Tab.B Fig. 3

2.3.2 Reference pin-out diagram with commercial flame controls

Reference table listing the connections between the flame sensor and the control boxes in use.

	LAL	LMO	LOA	RMO	503SE
Right side of sensor (+)	23	12	12	9	9
Left side of sensor (-)	22	11	11	Ň	N

Tab. B

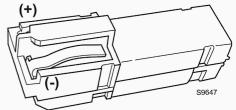


Fig. 4

Key (Fig. 4):

(+) = Brown

(-) = Blue