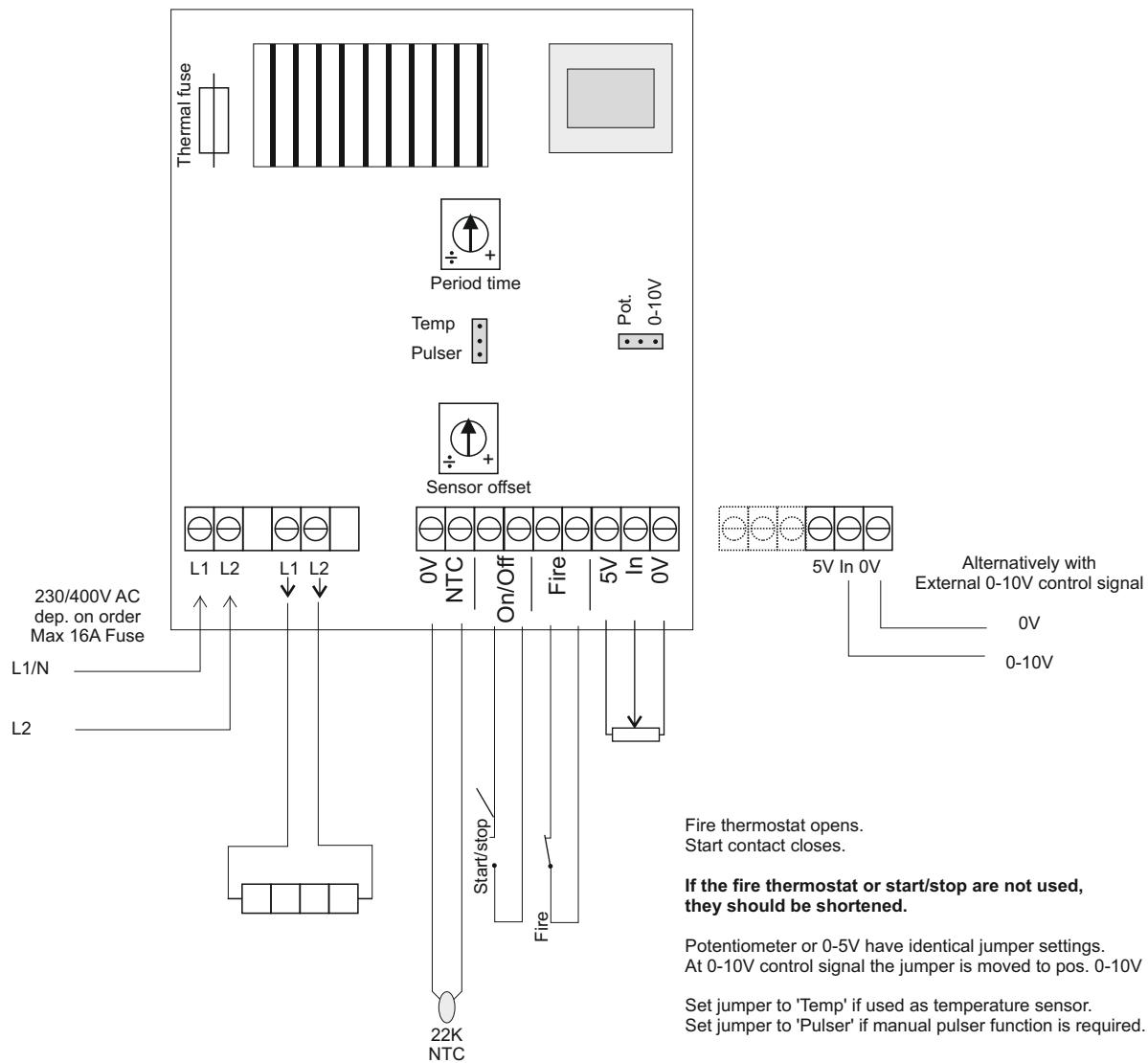


**ES 519****Electrical heating element power modul and regulator****Connection diagram:****Technical data:**

Supply: 230 or 400 V AC, 50 Hz  
Mains fuse: max. 16A  
Load: 0.3-16 A (3,6KVA /6,4KVA) heat  
Enclosure: IP 00/54 w/o/enclosure-w/enclosure  
Dimensions (HxWxD): 220 x 167 x 110 mm w/o/couplings  
Period time: 10 sec. - 20 minutes  
Xp in heat. reg. part: approx. 2°C  
Set point: 0-40°C  
Potentiometer value: 10K, 47K, 100K  
0 - 10V input imped.: Typically 20K ohm  
Op. temperature: 0 - 30°C at full load in encl.

**Description:**

Heat output with integrated pulse/wave train, controlled by potentiometer, 0-5V or 0-10V control signal.  
Input for external start/stop switch and fire thermostat.  
As the printed circuit board is equipped with input for a 22K NTC sensor, it can also be used as an independent heat regulator. In this case the control signal or the potentiometer is the set point.

**Adjustment:**

The period time is to be adjusted depending on the load to ensure that current regulations are observed. Factory settings are approx. 10 seconds. Control signal ( 0-5V/potentiometer or 0-10V) is selected by means of jumpers. The functions (normal pulser or temperature regulator with 22K NTC sensor) are chosen by means of jumpers.

If sensor is used, the tolerance can be fine adjusted on the trimmer, if required.

**Mounting:**

The box should be wall mounted with the clamp rail facing downward, and it should be connected in accordance with the connection diagram and current regulations.  
It is important to ensure a clearance around the box: 20 cm below and above the box and 10 cm clearance on the sides.  
After installaton a 5 mm drain hole is to be drilled in the bottom.

Date: 14/01 - 2026  
Drawn by: PN-JEH (df)  
Rev.: 3.2  
Manufactured by: LS Control A/S

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