

SOOT SENSOR ARRANGEMENT

5 ABSTRACT OF THE DISCLOSURE

A particulate matter (PM) sensor circuit arrangement including a PM sensor; said sensor including integral therewith: a PM sensor resistor; an RTD resistor and a heater resistor, said PM sensor including four terminal pins, of which:

- 10 a) a first terminal pin being connected to one terminal of said PM sensor resistor;
 - b) a second terminal pin being connected to one terminal side of said RTD resistor;
 - c) a third terminal pin being connected to one terminal of a heater resistor;
 - d) a fourth common terminal pin being connected to the respective opposite
 - 15 terminals of said PM, RTD and heater resistors to said first, second and third terminal pins;
- characterized wherein said fourth common pin is operationally connectable or connected to a boost or voltage supply, and where said first pin is connected to a low side line.

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Figure 4a