



# Operating Manual

**Model 200**

**PROXIMITY SENSOR  
SWITCHING SYSTEM**



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# Introduction



The Meech Model 200 Proximity Sensor Switching System has been designed for use with the Series 200 range of ionising nozzles and provides fully “hands free” operation.

The 200 Proximity Sensor Switching System comprises a proximity sensor and a control unit that connects directly into the Model 233v3 or 977v3 Pulsed DC Controller.

The proximity sensor automatically detects product passing in front of it.

A signal is sent to the control unit to automatically switch on the ionisation and compressed air supplies.

# Installation

Connection of 200 Proximity Sensor Switching System to the Pulsed DC Controller:

Note the Proximity Sensor Switching System is powered from the Pulsed DC controller.

1. Connect the eight pin DIN plug from the Proximity Sensor Control Unit to the 8 pin DIN Socket on the Pulsed DC controller. (Shown below)
2. Connect the 3.5mm Jack plug of the Proximity Sensor Control Unit to the Jack socket on the Pulsed DC controller. (Shown below)
3. Connect the grey High Voltage plugs of the Proximity Sensor Control Unit to the High Voltage output sockets of the Pulsed DC controller. Note negative and positive polarity shown on the label on the underside of the Pulsed DC controller and on the grey high voltage plugs of the Proximity Sensor Control Unit. (Shown below)



# Ionising Nozzle Connection

4. Connect the grey High Voltage plugs of the Ionising Nozzle to the High Voltage output sockets on the Proximity Sensor Control Unit. (Note negative and positive polarity).

# Photoelectric Sensor Connections

5. Connect the Photoelectric Sensor to the Proximity Sensor Control Unit 8 pin DIN socket. Adjustment to the sensing range is made by turning the yellow screw adjuster - on the photoelectric sensor. (Adjustment range 40-450mm).

# Air Supply Connections

Note that the fittings are 6mm push fit

6. Attach a compressed air supply to the Air Inlet socket of the Proximity Sensor Control Unit.

7. Connect a length of 6mm air pipe between the Ionising Nozzle and the Air Outlet socket on the Proximity Sensor Control Unit.



# Operation

The system is activated by switching on the ON / OFF switch of the Pulsed DC controller to the ON position. The system is now in its “ready state”.

When the system is in its ready state the “ON” light of the Pulsed DC controller and the “Power On” light of the sensor control unit are illuminated (all other lights are OFF).

When an object is passed in front of the photoelectric sensor (within its sensing range) this triggers the Proximity Sensor Control Unit to activate the high voltage outputs of the Pulsed DC controller (indicated by flashing –ve and +ve lights on the DC controller) and the compressed air supply.

Presence of an object in the sensing range of the photoelectric sensor is shown on the Proximity Sensor Control Unit when the green switching indicator is illuminated.

When the object is removed from range of the photoelectric sensor the system returns to its ready state (high voltage and compressed air supplies are OFF).

To shut down the system for maintenance purposes, shut off the compressed air supply at source and disconnect the Pulsed DC Controller from its mains electrical supply.

# Maintenance

1. Clean the enclosure of the Proximity Sensor Control Unit periodically with a damp cloth.
2. Clean the face of the photoelectric sensor periodically with a damp cloth.

# CE Approval

An EC declaration of conformity for this product exists in respect of the Low Voltage Directive: 72/23/EEC (“LVD”) & Electromagnetic Compatibility Directive: 89/336/EEC (“EMCD”)



# Health and Safety

Emission of Ozone: Considerably below international standard of 0.1ppm.







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