

# MRXBOX-PURGE-SWITCH

## Control Switch (Purge Option)

### Installation and Maintenance Manual



## 1.0 IMPORTANT SAFETY INFORMATION

- The provision of the electrical supply and the connection of the unit to the electrical supply must be carried out by a qualified electrician in accordance with latest edition of the wiring regulations.
- Isolate from power supply before removing any covers. During installation or maintenance ensure all covers are fitted before switching on the mains supply.
- All-pole disconnection from the mains as shown in the wiring diagram must be incorporated within the fixed wiring and shall have a minimum contact separation of 3mm in accordance with latest edition of the wiring regulations.
- This unit must be earthed.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. The replacement cord must be of the same technical specification as the original cord or greater.
- This appliance should not be used by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children.

### 1.1 HAZARD SYMBOLS



#### GENERAL WARNING

Signifies a general warning regarding hazard specified by supplementary information.



#### ELECTRIC SHOCK

This unit must be completely electrically isolated before any panels are removed. Check mains supply and control connections.



#### REFER TO INSTRUCTION MANUAL

Read and understand the installation and maintenance manual before installing, operating or maintaining this product.

### 1.2 IMPORTANT INFORMATION

This manual contains important information on the safe and appropriate assembly, transport, commissioning, operation, maintenance, disassembly and simple troubleshooting of the product.

While the product has been manufactured according to the accepted rules of current technology, there is still a danger of personal injury or damage to equipment if the following general safety instructions and the warnings contained in these instructions are not complied with.

- **Read these instructions completely and thoroughly before working with the product.**
- **Keep these instructions in a location where they are accessible to all users at all times.**
- **Always include the operating instructions when you pass the product on to third parties.**

### 1.3 PERSONAL PROTECTIVE EQUIPMENT

The following minimum Personal Protective Equipment (PPE) is recommended when interacting with Nuaire product:

- **Protective Steel Toed Shoes:** When handling heavy objects.
- **Full Finger Gloves (Marigold PU800 or equivalent):** When handling sheet metal components.
- **Semi Fingerless Gloves (Marigold PU3000 3DO or equivalent):** When conducting light work on the unit requiring tactile dexterity.
- **Safety Glasses:** When conducting any cleaning/cutting operation or exchanging filters.
- **Reusable Half Mask Respirators:** When replacing filters which have been in contact with normal room or environmental air.

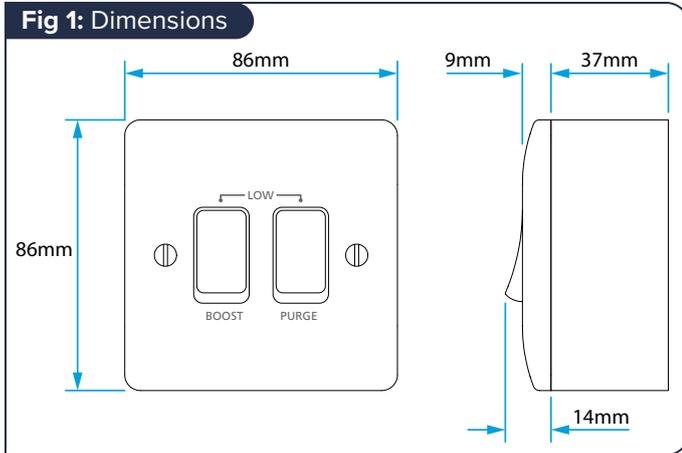
Nuaire would always recommend a site specific risk assessment by a competent person to determine if any additional PPE is required.

## 2.0 INTRODUCTION

The MRXBOX-PURGE-3SWITCH has been designed to be installed to speed control a fan that has three variable speed settings.

## 3.0 INSTALLATION

To fix the switch in position remove the front fascia by inserting a terminal screwdriver into the apertures along the bottom edge and prize open gently, the fixing points on the back plate can then be accessed to allow secure fitting to a standard single gang pattress. The front fascia can then be refitted.

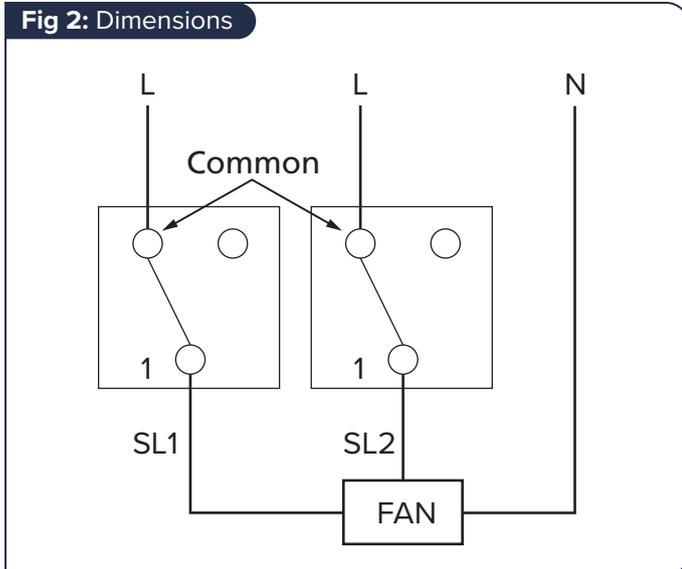


## 4.0 ELECTRICAL INSTALLATION

### IMPORTANT

Wiring should only be carried out by a qualified electrician.

Refer to the installation guide of the unit to which the switch is to be connected for any specific installation instructions and fuse rating. A typical wiring diagram is shown in Fig 2.



### 4.1 TECHNICAL SPECIFICATION

- **Voltage rating:** 250V AC 50Hz
- **Current rating:** 10 amps no derating when used on fluorescent or inductive loads
- **Terminal capacity:**
  - 4 x 1mm<sup>2</sup>
  - 4 x 1.5mm<sup>2</sup>
  - 3 x 2.5mm<sup>2</sup>
  - 2 x 4mm<sup>2</sup>
- **Contact gap:** 3mm nominal

### 4.2 PHYSICAL SPECIFICATION

- **Operating temp:** -5°C to +40°C
- **IP rating:** IP4X
- **Max. Install altitude:** 2000 meters

### 4.3 OPERATIONAL TESTING

Tested to 100000 operations for mechanical life.

Tested to 30000 operations at 10 amp rating.

## 5.0 END-OF-LIFE AND RECYCLING

Ensure that Nuaire product is made safe from any electrical / water / refrigerant supplies before dismantling commences. This work should only be undertaken by a qualified person in accordance with local authority regulations and guidelines, taking into account all site based risks.

Where possible Nuaire use components which can be largely recycled when the product reaches its end-of-life:

- Fans, motors, controls, actuators, cabling and other electrical components can be segregated into WEEE recycling streams.
- Sheet metal parts, aluminium extrusion, heating/cooling coils and other metallic items can be segregated and fully recycled.
- EPP, plastic ducting, nylon corner pieces, plastic heat exchangers, packaging material and other plastic components can be segregated into mixed plastic and widely recycled.
- Cardboard packaging, wood, used filters and other paper components can be largely recycled or fully processed in energy from waste centres.
- Remaining Items can be further segregated and processed in accordance with the zero waste hierarchy. Please call After Sales Support for further information on items not listed above.

## 6.0 AFTER SALES AND REPLACEMENT PARTS

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.

If ordering spares please quote the serial number of the unit together with the part number, if the part number is not known please give a full description of the part required. The serial number will be found on the identification plate attached to the unit casing.

Telephone 02920 858 400  
[aftersales@nuaire.co.uk](mailto:aftersales@nuaire.co.uk)

Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.

