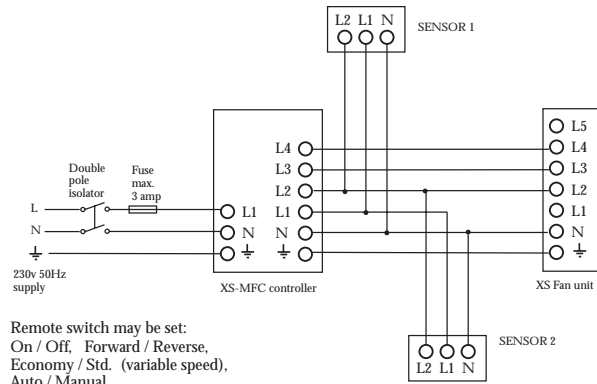


Wiring Diagrams (Multiple fans and sensors)



Remote switch may be set:
On / Off, Forward / Reverse,
Economy / Std. (variable speed),
Auto / Manual.

Fan operated using remote XS-MFC control and a Multiple Remote Sensors

NUAIRE XS Installation Guide

NUAIRE

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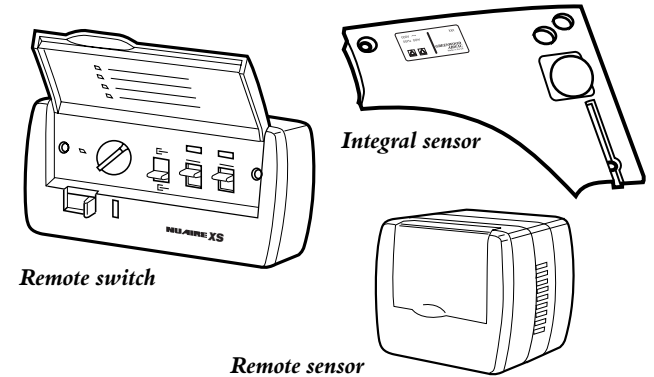
MAY 2009

Remote Switch: XS-MFC

Remote Sensors: XS-PIRR

XS-HR XS-AQR

Integral Sensors: XS-PIR XS-H XS-AQ XS-TH XS-TA



XS-MFC Remote Switch

Designed to work in conjunction with the XS range of fans and associated integral and remote sensors, the XS-MFC Remote Switch offers the user the following functions:-

- On / Off.
- Max. or Economy performance.
- Variable Speed Control.
- Forward / Reverse airflow.
- Auto / Manual operation.

Refer to the unit lift up lid for switch operating instructions.

The Remote Switch can control one fan or multiple fans, depending on the fan and type of sensor being used.
Up to 5 fans (size 6" / 9") can be controlled by one XS-MFC.
Up to 3 fans (size 12") can be controlled by one XS-MFC.

Note:

Do not mix fans of different sizes on the same control.

Siting position

Mount in a vertical plane.
The grille should be at the bottom.
Mount the switch 1.5 metres from the floor.
Do not expose to excessive amounts of oil, grease or direct water spray.

Do not subject switches to a direct heat source in excess of 45°C.

Installation

- Remove screws securing cover to box.
- Knock out cable entry point and feed the supply cable through allowing approx. 100mm of cable to protrude.
- Secure the back box to the wall.
- Wire in the switch (connect wires as shown in the appropriate wiring diagram) and secure the switch to the wall box
- Hook lip of security strap (if fitted) in hinge socket and secure boss using screw.

Electrical General

Note:

Units must be provided with a means of isolation (by others) in accordance with electrical regulations.

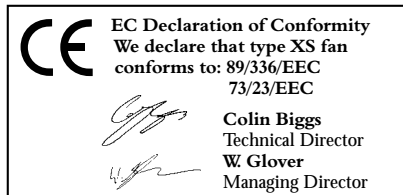
The units must be installed by a competent person.

All electrical wiring must be in accordance with the current wiring regulations.

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GP 221

Integral Sensors

Designed to work in conjunction with and fit inside the XS range of fans, the range of XS Integral Sensors offer the user the following functions:-

XS-PIR

Passive Infra Red movement detector - senses body movement, Run on Timer is adjustable between 2 and 40 minutes.

XS-H

Humidity Sensor- senses relative humidity. Adjustable between 30% and 90% RH. Run on Timer is adjustable between 2 and 40 minutes.

XS-AQ

Air Quality Sensor- detects odours and tobacco smoke. Adjustable to suit size requirements. Run on Timer is adjustable between 2 and 40 minutes.

XS-TH

Temperature Sensor. Adjustable between 5°C and 35°C.

XS-TA

Run on Timer, adjustable between 2 and 40 minutes.

Siting

Mounted inside a fan.

Grille section adjacent to sensor must be changed to suit the sensor being used (A)

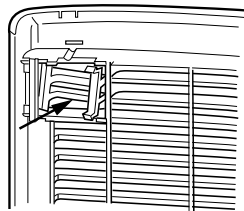
Do not expose to excessive amounts of oil, grease or direct water spray.

Do not subject sensors to a direct heat source in excess of 45°C.

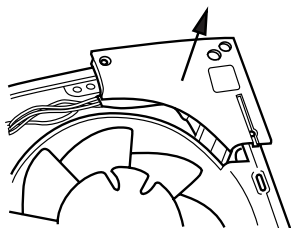
Installation

1. Isolate fan from mains supply
2. Remove the fan grille. Remove the grille insert in the top rh side of grille (A). Remove electrical cover plate on top left of fan. Remove rh corner cover. (B)
3. Connect sensor to fan using pre-wired plug. (C)
4. Place sensor module into fan. (D) Replace electrical cover on top left of fan. Fit new grille insert into main grille. (E)

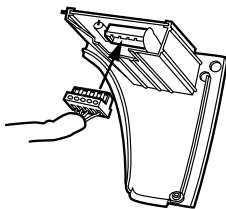
A



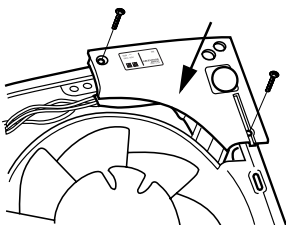
B



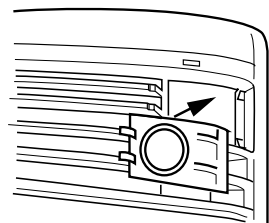
C



D



E



Remote Sensors

Designed to work in conjunction with the XS range of fans, the range of XS Remote Sensors offer the user the following functions:-

XS-PIRR

Passive Infra Red movement detector - senses body movement, Run on Timer is adjustable between 2 and 40 minutes.

XS-HR

Humidity Sensor- senses relative humidity. Adjustable between 30% and 90% RH. Run on Timer is adjustable between 2 and 40 minutes.

XS-AQR

Air Quality Sensor- detects odours and tobacco smoke. Adjustable to suit size requirements. Run on Timer is adjustable between 2 and 40 minutes.

NOTE

Refer to the lift up lid for sensor operating instructions

Siting position

Mount in a vertical plane.

The grille in sensor box should be at the bottom.

Mount the switch 1.5 metres from the floor (C)

Do not expose to excessive amounts of oil, grease or direct water spray.

Do not subject switches to a direct heat source in excess of 45°C.

Installation

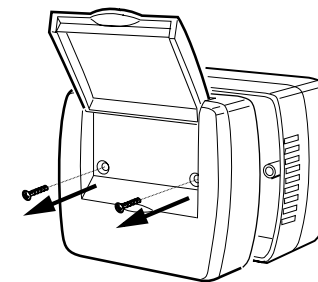
1. Remove screws securing cover to box. (A)
2. Knock out cable entry point and feed the supply cable through allowing approx. 200mm of cable to protrude into box. (B)
3. Drill & plug the surface and fix the back box to the wall. (C)

If security strap XS-SS is to be fitted:

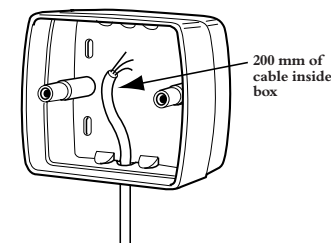
Locate boss centrally in slots.

4. Wire in the sensor (D) (connect wires as shown in the appropriate diagram in the appropriate wiring diagram) and secure the sensor to the wall box (E)
5. Hook lip of security strap (if fitted) in hinge socket and secure the boss using the screw.

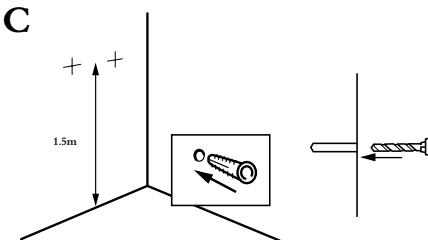
A



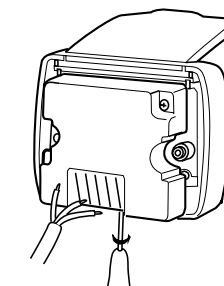
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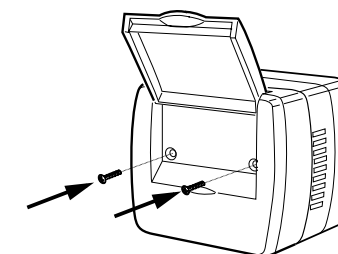
C



D

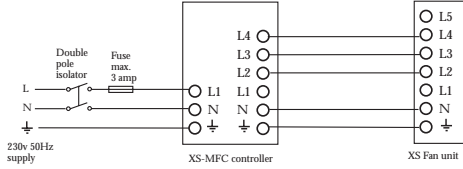


E



Wiring Diagrams (One fan)

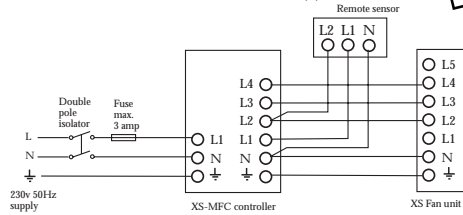
Supply / Extract fan operated via remote XS-MFC control



Remote switch may be set: On / Off, Forward / Reverse, Economy / Std. (variable speed), Auto / Manual.

IMPORTANT NOTE
(Shutter operation XS fans)
There will be a short delay on startup and shutdown of approximately 40 seconds.
This is normal.

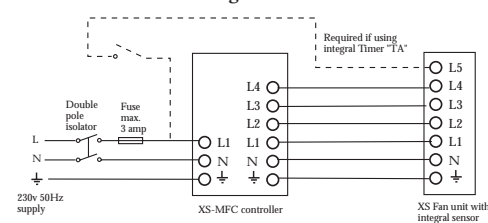
Supply / Extract fan operated via remote XS-MFC control & Remote Sensor(s)



Remote switch may be set: On / Off, Forward / Reverse, Economy / Std. (variable speed), Auto / Manual.

One or more Remote Sensors may be wired in parallel to one XS-MFC Control.
 Humidity Sensor: XS-HR, Air Quality Sensor: X S-AQR
 Passive Infra Red Sensor: XS-PIRR.

Supply / Extract fan operated via remote XS-MFC control and Integral Sensor



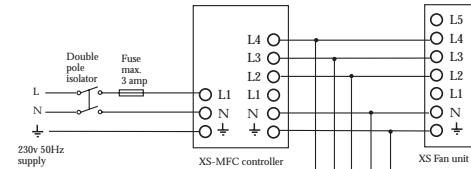
Remote switch may be set: On / Off, Forward / Reverse, Economy / Std. (variable speed), Auto / Manual.

Maximum one Integral Sensor per fan 6/9/12 denotes unit size identity
 Humidity Sensor: XS-H6/9/12, Air Quality Sensor: XS-AQ6/9/12
 Passive Infra Red Sensor: XS-PIR6/9/12, Temperature Sensor: XS-TH6/9/12
 Run on Timer: XS-TA6/9/12

A single sensor will switch all fans if more than one fan is being operated by a single XS-MFC controller.

NOTE:
 Multi-fan options:
 Up to 5 fans (size 6" / 9") can be controlled by one XS-MFC.
 Up to 3 fans (size 12") can be controlled by one XS-MFC.
 Do not mix different fan sizes on the same controller.

Wiring Diagrams (Multiple fans)



Remote switch may be set: On / Off, Forward / Reverse, Economy / Std. (variable speed), Auto / Manual.

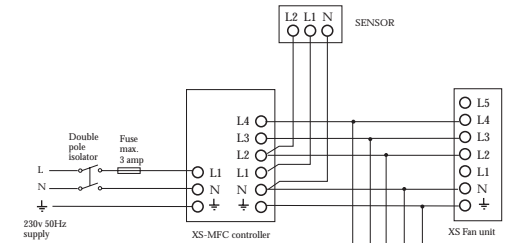
Multiple fans operated via remote XS-MFC control

Additional fans may be added up to limit of control:
 Up to 5 fans (size 6" / 9") can be controlled by one XS-MFC.

Up to 3 fans (size 12") can be controlled by one XS-MFC.

Do not mix different fan sizes on the same controller.

Wiring Diagrams (Multiple fans and sensor)



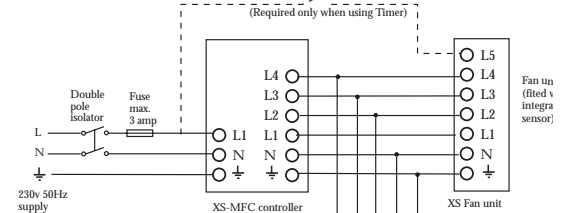
Remote switch may be set: On / Off, Forward / Reverse, Economy / Std. (variable speed), Auto / Manual.

Multiple fans operated via remote XS-MFC control and a Remote Sensor

Additional fans may be added up to limit of control:
 Up to 5 fans (size 6" / 9") can be controlled by one XS-MFC.

Up to 3 fans (size 12") can be controlled by one XS-MFC.

Do not mix different fan sizes on the same controller.



Remote switch may be set: On / Off, Forward / Reverse, Economy / Std. (variable speed), Auto / Manual.

Multiple fans operated via remote XS-MFC control and one Integral Sensor in Fan 1

Additional fans may be added up to limit of control:
 Up to 5 fans (size 6" / 9") can be controlled by one XS-MFC.

Up to 3 fans (size 12") can be controlled by one XS-MFC.

Do not mix different fan sizes on the same controller.