

The **fns3200D(X, A)/AT** sensor kit plugs directly into any of the **flex7** 7-pole range of connection units or a 7-pole single socket outlet to provide control of the connected mains rated luminaires. Control is ON/OFF/DIM, dependent on occupancy.

The kit comprises a controller, sensor head, and sensor lead.

Three products are available:

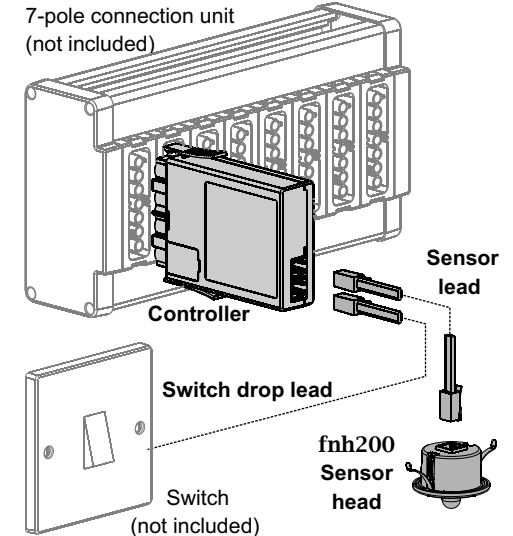
fns3200D/AT for DSI digital dimmable ballasts.

fns3200X/AT for DALI digital dimmable ballasts.

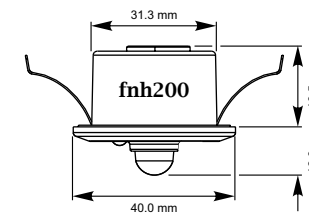
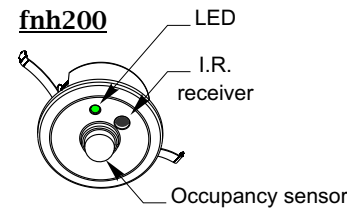
Fns3200A/AT for Analogue ballasts 0-10V.

Please ensure the correct product is selected for the type of ballast being used as incorrect connection may damage the controller.

This product should only be installed by a qualified electrician.



Sensor head and occupancy detection performance

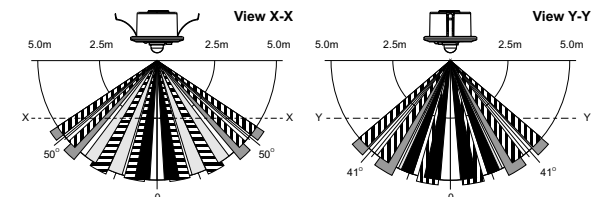
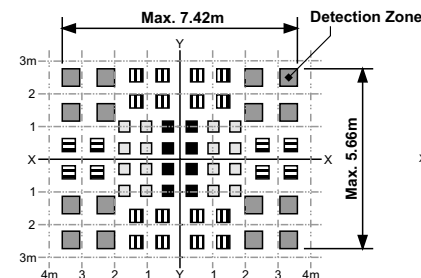


The sensor head fits into a 32mm diameter hole, with clips which can grip ceiling panels down to 1.5mm thick.

The sensor head has a rectangular occupancy detection range broadly 7.4m x 5.6m at a ceiling height of 2.5m (Longest length of detection aligning with the spring clips). As the ceiling height increases so will the overall detection area but sensitivity to small movements will decrease.

Note: Make sure that the sensor is not adjacent to circulating air, heaters or lamps.

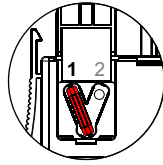
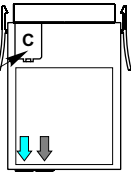
Detection Zone



The X-Y cross-sectional diagram shows the detection area. The differences in the detection zone patterns indicate the projections of the 16 lenses with a single focal point. Movement of an object with higher than background temperature, between the detection zones, will be detected.

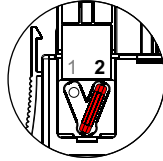
Configuring the controller and wiring the connection unit

Prise open lid 'C' using a screw driver. Position link as required.



Link in position 1

Lights can remain ON during an emergency test. Wire connection unit as shown in option A. See 'Wiring' opposite page for details.



Link in position 2

Lights will switch OFF during an emergency test. Wire connection unit as shown in option A or B. See 'Wiring' opposite page for details.

Rating

Supply Voltage : 220V-240V, 50Hz, ~

Load

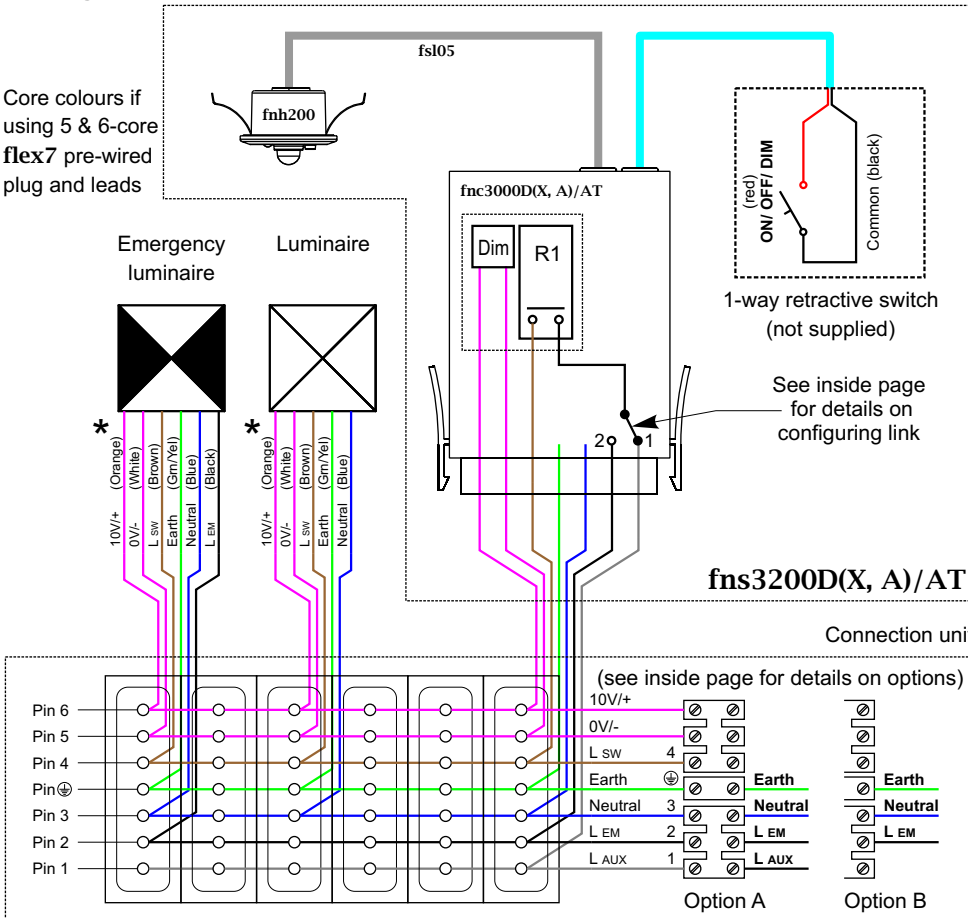
Flourescent & Incandescent Lighting : 6A
Compact Flourescent Lighting : 3A

Maximum number of Ballast

fns3400D (DSI Digital control) : 25
fns3400X (DALI Digital control) : 25

Wiring

* Core colours if using 5 & 6-core flex7 pre-wired plug and leads



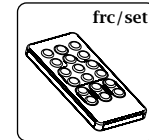
Operation:

Absence detection: When occupancy is no longer detected, lights will switch OFF after a pre-selected *time-out* period. **Note:** By default, absence sensors do not switch lights on due to occupancy, however with an frc/set setup remote control it is possible to reconfigure the unit to initiate the lights ON with first occupancy - This is not true occupancy detection as it can only occur where occupancy has timed out e.g. first thing in the morning.

Switch control:

A short pulse (<0.5 secs) - toggles the lights ON or OFF (when turning ON, lights adopt the last dimmed level).
A long pulse (>0.5 secs) - alternates from brightening the light to dimming the light with each consecutive long pulse. Lights can only dim down to the minimum operating range of the ballast.
A prolonged pulse (>15 secs) - synchronizes the lights to OFF.

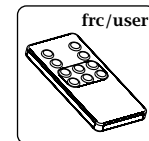
Setting Up



Setup Remote Control - frc/set

The sensor can only be setup by using an frc/set remote control - ordered separately. Full instructions for setting up the sensor are supplied with the frc/set remote control.

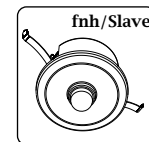
Optional Extras



User Remote Control - frc/user

The frc/user remote control is a convenient method for the user to control the lighting remotely. Lights can be temporarily overridden ON or OFF and in cases where the lighting control is dimmable, dimmed UP or DOWN. In addition, up to six preset light levels can be stored and recalled.

Note: Unlike the frc/set remote control the frc/user remote control can not be used to setup or change occupancy time-out settings.



Increasing Occupancy Coverage - fnh/slave

Occupancy coverage can be increased by adding up to a maximum of five slave sensor heads (fnh/slave) to your existing sensor head. The fnh/slave comes complete with a 'Y' adaptor to facilitate connection.

A connecting lead may also be required, part number fslXX (XX = length /5m).