

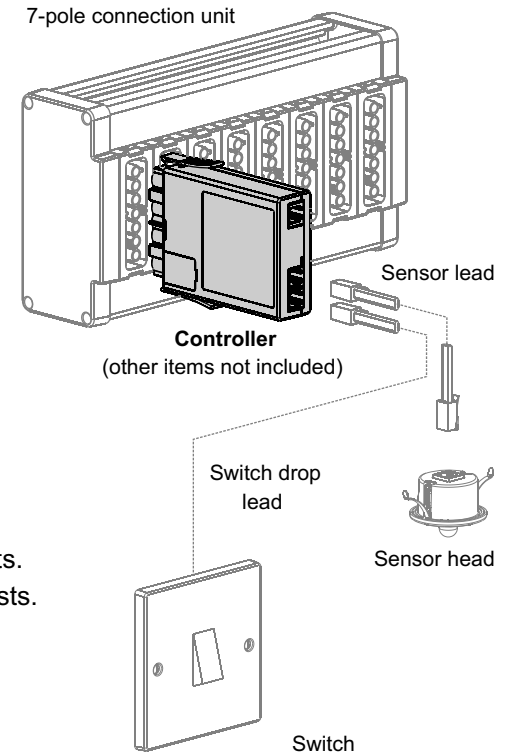
Circuit diagram for fnc4000D(X, A) Controllers

## fnc4000D(X, A) - Controllers

The **fnc4000D(X, A)** are all control devices which can plug directly into any of the **flex7** 7-pole range of connection units or a 7-pole single socket outlet. Working with at least a plug-in sensor head or together with a switch, the device will control the connected mains rated luminaires ON, OFF and DIM up or down. The exact operation will largely depend on which of the input devices are connected. Note that any connected switch or sensor head will be operating at ELV.

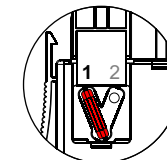
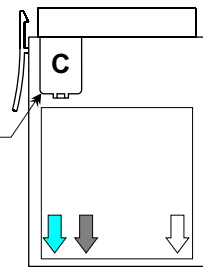
Three products are available:  
**fnc4000D**: DSI digital dimmable ballasts.  
**fnc4000X**: DALI digital dimmable ballasts.  
**fnc4000A**: Analogue ballasts 0-10V.

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

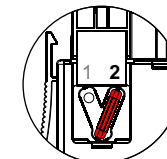


### Configuring the fnc4000D(X, A) controller & wiring the connection unit

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 back 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 back page for details.

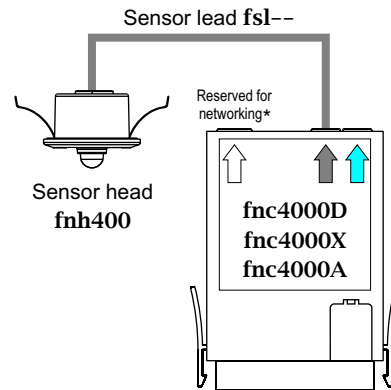
Product	Control Type	Max. no. of Ballast	Rating
fnc4000D	DSI Digital	25	Supply Voltage : 220V-240V, 50Hz, ~
fnc4000X	DALI Digital	25	<b>Load</b> Fluorescent & Incandescent Lighting : 6A Compact Fluorescent Lighting : 3A

## Using a fnc4000D(X, A) controller with a sensor head only

### Operation:

**Occupancy detection:** Lights will switch ON whenever there is occupancy detected by the sensor head. When occupancy is no longer detected, lights will switch OFF after a pre-selected *time-out* period.

**Daylight linking:** While lights are ON due to occupancy their light output will adjust to compensate for any changes in ambient light in order to maintain a constant light level under the sensor head - the *target level*.

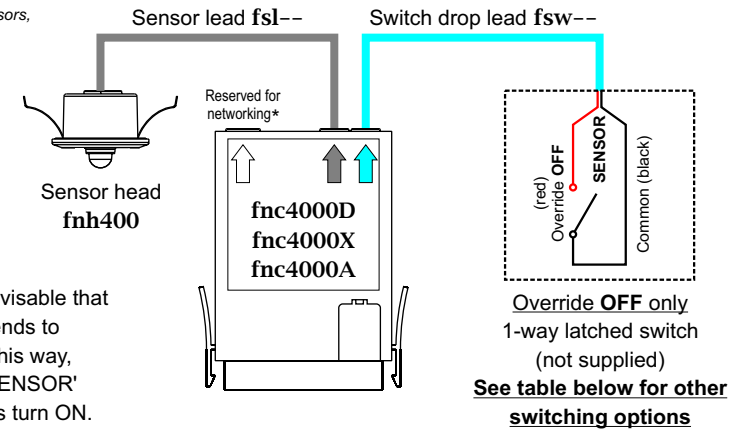


\* Refer to leaflet *Networking Sensors*, leaflet number 17/245.

Note: Alternative operational options not necessarily shown above are available using the **frc/set** setup remote control. Full instructions for setting up the sensor are supplied with the sensor head and the **frc/set** remote control - both ordered separately.

## Using fnc4000D(X, A) controller with a sensor head & an override switch

\* Refer to leaflet *Networking Sensors*, leaflet number 17/245.



### Note:

For safe operation it is advisable that occupancy coverage extends to cover the wall switch. In this way, operating the switch to 'SENSOR' position ensures the lights turn ON.

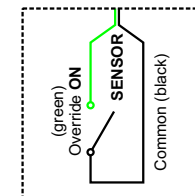
### Note:

If your room requires 2-way switching, a special 'Y' connector is available to enable two switch drop leads to be connected. (Part No. **fsy/2e/2** - OFF control from 2 x 2-way switches)

### Other switching options incorporating override ON

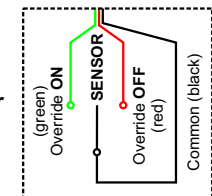
#### Note:

You may not be able to claim enhanced capital allowances under the Carbon Trust scheme if you incorporate local 'override ON' switches in your occupancy sensor scheme.



**Override ON only**  
1-way latched switch  
(not supplied)

or



**Override ON and OFF**  
3-position, centre off, latched switch  
(not supplied)

### Operation:

**Occupancy detection:** Provided the wall switch is in the 'Sensor' position the lights will switch ON whenever there is occupancy detected by the sensor head. When occupancy is no longer detected, lights will switch OFF after a pre-selected *time-out* period.

**Daylight linking:** While lights are ON due to occupancy their light output will adjust to compensate for any changes in ambient light in order to maintain a constant light level under the sensor head - the *target level*.

**Override switch operation:** Override OFF or override ON takes priority over sensing. (Override ON means full bright).

Note: Alternative operational options not necessarily shown above are available using the **frc/set** setup remote control. Full instructions for setting up the sensor are supplied with the sensor head and the **frc/set** remote control - both ordered separately.