Left Page — Operational Options

Important:
Operational options are factory set to those considered most likely required. We therefore only recommend changing an option after careful consideration of the information below. Options available vary according to the sensor type. In order to ascertain the type and therefore which options can and can't changed use the flow chart below. Then use the table to find the option explained.

Note: Shaded buttons are default factory settings.

Setting an option
Press and hold the desired enable or disable button until the green LED on the sensor head stops flashing (usually after 5 secs). Then release the button and the LED will flash just once more to confirm the option has been set. Note: if there is no confirmation flash try the set up again.

fnh400

Light cell

Is the sensor controller dimmable or just ON/OFF?

	Yes	No
Dimmable		
ON/OFF		

Are the lights operated by a momentary switch?

Is the sensor controller dimmable or just ON/OFF?

Presence	**Day. dep.**	**Man. dim.**
Enable **P1** Disable	Enable **D1** Disable	Enable **M1** Disable
Enable **P1 D2 M1** Disable		

P1 Enabled: Occupancy (presence) can initiate the lights ON **provided** the sensor has **timed-out.**
Disabled: Occupancy (presence) can never initiate the lights ON (always requires a switch operation).

D1 Enabled: Lights switch OFF when too bright and ON when too dark - i.e. *Daylight dependent.*
Disabled: Lights will not react to any changes in light level. i.e. *Daylight dependency disabled.*

M1 Enabled: Enables wall switch (with long pulse) to work as a dimmer (*daylight linking* disabled until next ON).
Disabled: Limits the wall switch to just ON & OFF control i.e. *daylight linking* always running when lights ON.

Day. dep.	**Man. dim.**
Enable **D2** Disable	Enable **M2** Disable
Enable **D2** Disable	Disabled **M2**

P1 Enabled: Occupancy (presence) can initiate the lights ON provided the sensor has timed-out.
Disabled: Option not available

D2 Enabled: Lights can only *daylight link* down to minimum brightness (does not switch OFF).
Disabled: Lights can *daylight link* all the way down to OFF (don't use if **some** lights on circuit are **non-dimmable**)

M2 Enabled: Long 'on pulse' on wall switch temporarily disables *daylight dependency* (until next ON).
Disabled: *Daylight dependency* can not be temporarily disabled by wall switch.
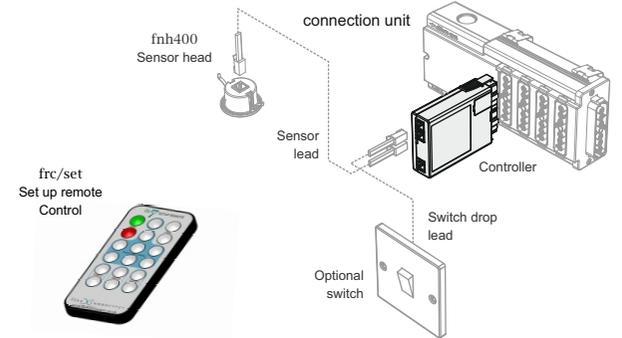
Right Page

The frc/set remote control is used for setting up any of the Flex Connectors Value range or Control plus range of sensors.

Parameters such as occupancy time-out, light target-level and up to three operational options can all be set up using the frc/set remote control.

fnh400 Sensor head

connection unit

Controller

frc/set Set up remote Control

Sensor lead

Switch drop lead

Optional switch

Setting up Time-Out

Considerations before installation

fnh400
I.R. receiver
Light cell

Before starting ensure your sensor head is the fnh400 sensor head shown above.
Check the sensor head is powered by observing the green LED flashing whenever occupancy is detected.

fnh/aux

fnh/aux does not require setting up, it inherits occupancy *time-out* period from its parent fnh400 sensor head connected in parallel.

frc/set

flex7 SETUP REMOTE

On — Lights — Off
Set light level
Dim ▲ ▼
Test 10 secs

2	5	10
20	40	Disable

Time-out (mins)

Enable Presence Disable	Enable Day.dep Disable	Enable Man.dim Disable

flex connectors
www.flexconnectors.co.uk

Replacement Battery: CR2025

Use for occupancy walk test or to demonstrate *daylight linking* / *daylight dependency* reacting faster than usual. See setting light level.

2, 5, 10, 20 and 40 mins.

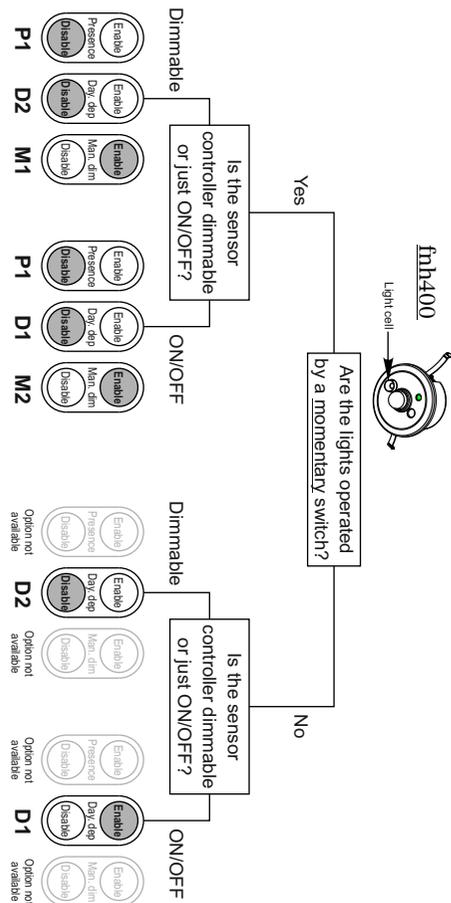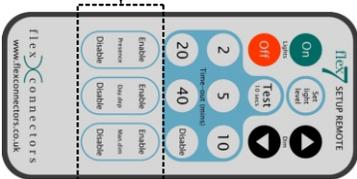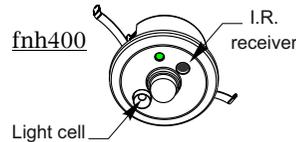Disables occupancy. i.e. occupancy has no effect on the lights.

To set a time-out:
Using the remote control press and hold the desired time-out button until the green LED on the sensor head stops flashing (usually after 5 seconds). Then release the button and the LED will flash just once more to confirm the time-out has been set. If the confirmation flash was not observed - try the set up again.

Note: To find out the current stored time-out value, momentarily press the 'Test' button. The green LED will then flash a number of times corresponding to the current stored time-out

Time-out/mins	Test 10s	2	5	10	20	40	Disable*
No. of flashes	1	2	3	4	5	6	7

How does Daylight linking work?

For dimmable control units only (see under - determining your type of control).

Lights are automatically regulated to compensate for any changes in ambient light in order to maintain a constant light level (target level) under the sensor head.

Note: *Daylight linking* can work in one of two ways:

If *daylight dependency* is disabled (see options) - Lights can only *daylight link* down to a minimum brightness (i.e. they do not switch OFF completely).

If *daylight dependency* is enabled (see options) - Lights can daylight link all the way down to OFF. More precisely - if, after 5 minutes, of *daylight linking* at minimum brightness and the detected light is still significantly brighter than the *target-level* - the lights will switch OFF completely. (5 seconds if occupancy *time-out* is set to 'test 10 secs').

The lights will turn back ON again, if the detected light level subsequently falls below the *target-level*.

How does Daylight dependency work?

For ON/OFF control units only (see - determining your type of control)

Lights switch OFF - if, for a period exceeding 5 minutes:
Detected light level > target level + (the lights own contribution x 125%).
(5 seconds if occupancy *time-out* is set to 'test 10 secs').

Lights switch ON - provided they would otherwise be ON with occupancy, if:
Detected light level < target level.

Testing daylight linking / daylight dependency

To observe *daylight linking* / *daylight dependency* at work, set the occupancy *time-out* to '   ' (Test 10 secs' (see under - setting up *time-out*)). In this mode, dimmable fittings react to changes in ambient light twice as fast as usual and *daylight dependency* (if enabled) can switch the lights OFF within 5 seconds (rather than the usual 5 minutes).

Note: It may be necessary, whilst testing, to maintain occupancy to avoid an unwanted occupancy *time-out*.