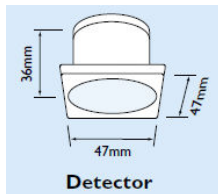
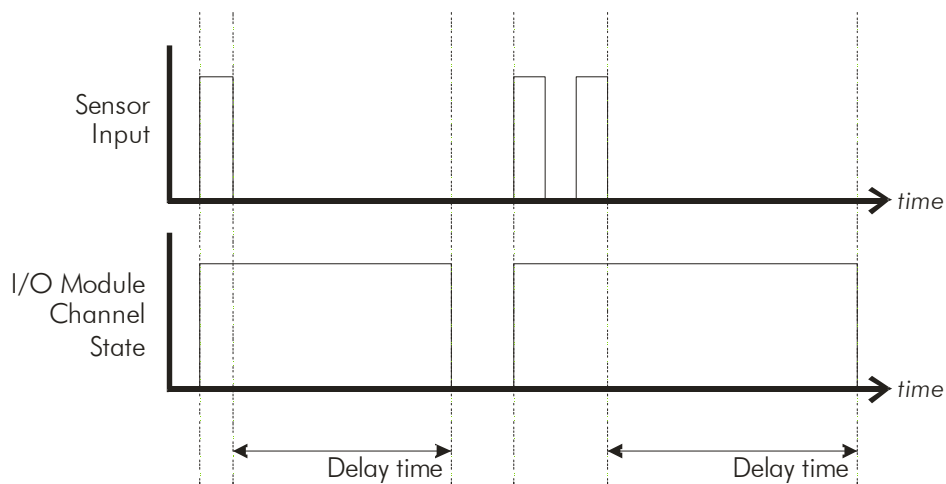




Using PIR Sensors

Module control-board firmware version: 1.05 or later
 NPU firmware version: 1.0.38.0
 NPU web-application version: 1.0.16.0

The eDIN I/O module's inputs can be configured to connect to motion sensors, and perform a delay-timed behaviour, such that the output will remain high for a period of time after the last movement seen:



The I/O module can accept a sensor with either normally-open, or normally-closed contacts. The I/O module can connect to open-collector sensors. Mode supplies a silent, small-form-factor motion detector; please speak to the sales department for further details.

Stand-Alone Mode

Set the channel's input type:

- PIRo Normally-open PIR sensor
- PIRc Normally-closed PIR sensor

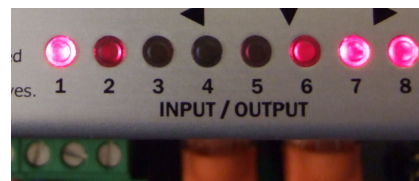


Set the channel's delay time, using the *PIRt* option.

This time is set in minutes (*it may be set in seconds when using the NPU, see below*)



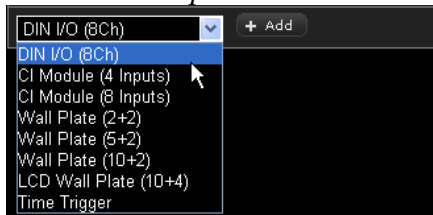
During the time between the PIR sensor ceasing to detect motion, and the time that the I/O module releases its' input the indicator LED for that channel will flash.



See section below for details of testing options

NPU Controlled System

Add an eDIN I/O Module to the system by selecting the module from the drop-down menu in the *Inputs* section of the eDIN configuration screen:



Select *PIR Sensor Input* as the input type for the channel that you want to use.

Use the tick-boxes to choose which PIR events you will want to trigger scenes from.

The time-out *time* is set in seconds. This is the number of seconds following the last time that the PIR sensor finishes sensing motion after which the I/O module will report a change of state.

Channel	Type	Name	Output Min PIR Expiry (s)	Max	Load	
					Occupied	Empty
1	PIR Sensor Input	Corridor sensor A	0		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Contact Input	See below				
3	DSI Input			n/a		
4	Analogue Output		0%	100%		100W
5	Contact Input	See below				
6	Contact Input	See below				
7	Contact Input	See below				
8	Contact Input	See below				

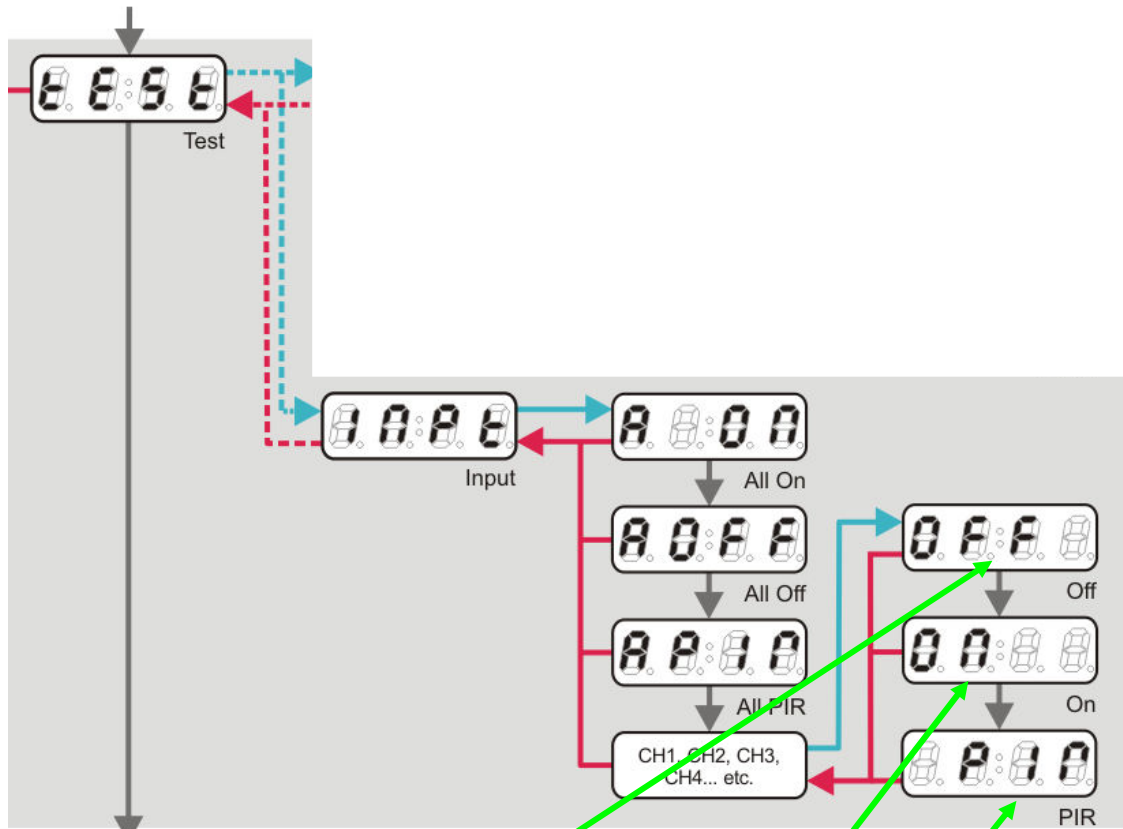
Input	Events					Parameters				
	Opened	Closed (Pressed)	Held	Released	Held Released	Close Time (ms)	Hold Time (ms)	Inactive Time (ms)	Debounce Time (ms)	Inverted
1										
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	1000	1000	50	<input type="checkbox"/>
3										
4										

The input events are shown in the configuration page, and can be assigned actions, for example to recall scenes, follows:

Inputs		1	2
Corridor sensor A	1 Corridor sensor A	▶	
Not occupied for time seconds	1 Corridor sensor A		▶
	2		
	3		
	4		
	5		

Features for Testing PIR Operation

The I/O Module's *Test* menu gives you several options to rapidly verify your site.



Select *Off* to force the output off

Select *On* to force the output on (with the delay timing), as if the sensor had detected motion.

Select *PIR* to reduce the time to 10 seconds to enable a “Walk Test” using the sensors themselves but with reduced timing.