



Features

- Presence and Absence Detection Options
- Automatic Daylight Harvesting
- Settable Timing Modes
- Basic Luminaire setup without expensive commissioning tools
- Broadcast and Group Functions
- Dual Mode Remote Control
- Room & Corridor Options
- Manual Lux Level and Sensitivity Control
- Coloured Feedback LEDs
- Walk Test
- Can control LED and fluorescent DALI luminaires

Elkay easyDALi PIR Instructions must be read in conjunction with Remote Control Instructions in order to enable all features of the PIR.

This flush mounted ceiling mount Elkay easyDALi PIR has full DALI flexibility and is the intelligent sensor element of the Elkay easyDALi system. It can automatically address the lighting ballasts without the need for expensive controllers. The PIR is switched on by the detection of moving body heat within a specified range. When this moving body heat is no longer detected the unit will dim down the luminaires and eventually switch off. It will also automatically harvest available daylight to maximise energy savings. With the remote it is possible to set dimming time delays and Room and Corridor options. There are also helpful coloured feedback LEDs to make programming easier.

Mains power should never be connected to any terminal of the easyDALi PIR

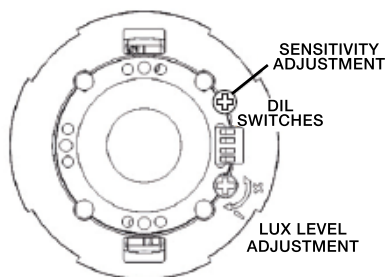
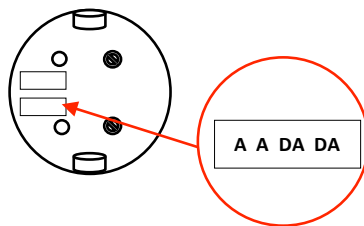
The DALI connections are made to the DA DA bus lines. There is no polarity but it is advisable and good practice to keep wiring colours to the same connections for consistency.

Absence detection on the Elkay easyDALi system can easily be achieved with the addition of a momentary switch. To turn this easyDALi PIR from a presence detector to an absence detector simply connect a momentary switch to the A and A Absence Control lines and the PIR will now be a absence detector.

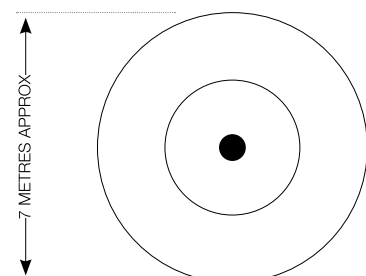
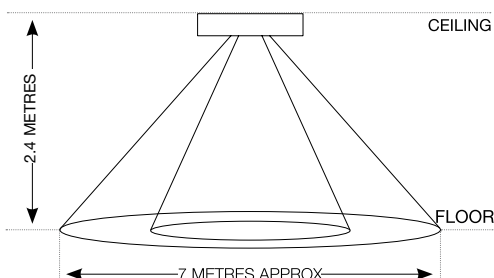
CAREFUL POSITIONING OF THE PIR IS ESSENTIAL TO MAINTAIN OPTIMUM DETECTION PERFORMANCE.

Elkay easyDALi PIR wiring connections

A	Absence Control Lines
A	Absence Control Lines
DA	DALI Bus line
DA	DALI Bus line



PIR sensor detection pattern



Broadcast Mode

The Elkay easyDALi PIR is set to presence and broadcast mode straight out of the box and will control even brand new un-configured luminaires. In Broadcast Mode the Elkay easyDALi PIR broadcasts DALI control signals to all luminaires on the connected DALI network. This is the simplest way to control DALI luminaires. In this way the Elkay easyDALi PIR is truly a 'wire up and work' system. For each Power supply you can have one new broadcast network PIR to control luminaires.

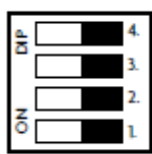
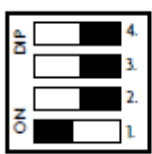
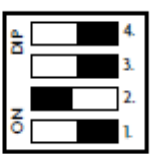


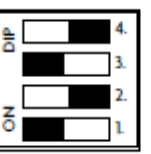
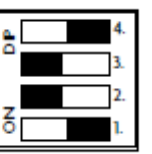








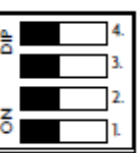
1. Firstly ensure the Elkay easyDALi PIR is set by setting all four dipswitches to off (default factory setting).
2. Simply connect the bus lines in the PIR with the Multi-purpose box and power supply unit in system.
3. The easyDALi PIR unit will automatically control all the luminaires on that network.

That's it!

For broadcast mode you have completed set-up at this point and the PIR will automatically daylight harvest and work as a presence or absence detector with the addition of a momentary switch.

Table 1- Broadcast and Group Dipswitch Selection

Please note that the **BLACK** bar denotes position of the dipswitch

							
Broadcast Mode	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
							
Group 8	Group 9	Group 10	Group 11	Group 12	Group 13	Group 14	Group 15

Setting Group Mode

There are 15 groups available with the 4 dip switches plus broadcast (see Table 1). As with standard DALI protocol you cannot have more than one DALI PIR controlling the same lights on the same group. The standard DALI protocols ensure that maximum efficiencies are obtained by having the smallest groups possible. For example, one easyDALi PIR to 4 Luminaires all set to Group one, another easyDALi PIR controlling 6 luminaires on Group 2.....etc. **In order to program a group on the Elkay easyDALi PIR the dipswitch must be set first.**

The Elkay easyDALi PIR can control luminaires via a group address. When a group is set on the Elkay easyDALi PIR it sends DALI control signals to luminaires with only that group address programmed within the ballast. In this way the Elkay easyDALi PIR can replace an existing PIR in a pre-programmed network provided the group number is known. The Elkay easyDALi PIR can also program the ballast within luminaires on a network to work on the currently set group (see 'Add group to pre-addressed luminaires') without the need for expensive commissioning tools. Using different groups, a number of Elkay easyDALi PIRs can control sets of luminaires on the same network, with many manufacturers PIRs this is not possible

Add group to pre-addressed luminaires.

Setup of existing luminaires on a DALI network is important even if some or all of the luminaires are not to be controlled by the Elkay easyDALi PIR currently being installed. In setting up luminaires the Elkay easyDALi PIR updates its list of DALI addresses currently in use, so that those addressed are not allocated to new luminaires. **To get the PIR to setup luminaires:**

1. Select the required group on the easyDALi PIR dip switches as per the Table 1 above.
2. You must turn lights OFF with the remote first to operate and program in this mode. To do this, point the remote control at the Elkay easyDALi PIR & press the override off button. While in override off the Elkay easyDALi PIR LED flashes white.
3. Set the remote control to installer mode by pressing the hidden installer button inside the battery compartment, the remote control LED illuminates red.
4. Point the remote control at the PIR & press button '1'. The Elkay DALI PIR will now search the network for luminaires that have a DALI short address pre-programmed.
5. Once the search is completed the lamps will pulsate. If you want the PIR to control the pulsating luminaire in the group, press the remote control brightness up button for 'YES' or brightness down button for 'NO'. If 'YES' is pressed the luminaires ballast is updated with the DALI group currently set on the Elkay DALI PIR dip switches and it updates its address list and controller list. This luminaire is now in the PIRs group. If 'NO' is pressed only the address list is updated and the Elkay DALI PIR will not control this luminaire in that group selected. Please note twin fluorescent DALI luminaires will only pulsate if both tubes are engaged in the fitting correctly and are both working normally.