

ERDRC-EC installation guide



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Product Overview

Echoflex's lighting controllers use wireless technology to monitor the room's environment eliminating much of the wiring normally required for distributed control. This translates into quick installations with less disruption to occupants allowing facilities to accelerate retrofit schedules and start saving money sooner. The lighting controllers have Echoflex's Smart Click technology which allows installers and facility operators to manage configuration settings without any tools reducing call-backs and installation expense. Using just a wireless wall switch, the facility maintenance engineer can adjust setting on the installed controllers eliminating a service call to an electrician.

This guide covers model number ERDRC-ECC which is equipped with an EnOcean 315 MHz radio and the ERDRC-EC equipped with a 868 MHz radio.

The package includes the ERDRC controller and installation guide.

ERDRC Operation

The ERDRC is a controller that can activate lighting loads when a received input from a linked sensor or switch is changed.

As a lighting controller, the ERDRC operates lights based on:

- ambient light levels monitored by an Echoflex light sensor
- occupancy state monitored by Echoflex motion sensors
- switch action from an Echoflex wall switch

Supported Remote Devices

Device	Model	Applications
Wall switch	PTM265	Lighting, Timed Switch
Dual Switch	PTM265D	Lighting, Timed Switch
Light Sensor	TAP-17	Daylight Harvesting Lighting
Motion Sensor	MOS-17	Auto off and/or Auto on Lighting

ERDRC and Wall Switches

The ERDRC works with the wireless PTM single and dual rocker wall switches. A switch ON action activates the relay closed (light's on) and the OFF action opens the relay (light's off). The PTM switches can also be used as dimmer switches -

press and hold the on or off side to modulate the dimming output up or down. When connected to a dimming ballast, the modulating output ramps the light intensity from the fixture.

ERDRC and Timed Switches

The ERDRC can be configured so the single and dual rocker PTM switches become timed switches. An ON action closes the relay (light's on) and a timer is set to count down. Once the timer expires, the relay opens (light's off).

The time period is configurable and has 5 settings:

no timer (default), 5 minutes, 15 minutes, 30 minutes and 1 hour. Additionally, if the user presses the wall switch ON multiple times (to a total of 5 presses), the timer interval is added for each ON press. If ON is pressed while the light's are on and the timer is counting down, an additional period of time is added to the timer total.

For example: if the timer setting is 1 hour and the user pressed the switch ON twice, the total timer period is 2 hours. If there is 30 minutes left on the timer and ON is pressed again, the timer is extended to 1 hour 30 minutes before the light's will turn off.

The ERDRC will toggle the relay (flick-warn) 45 seconds before the timer is due to expire to warn users of the pending OFF event.

To configure, the time period, refer to the section on "**Configuring the ERDRC**".

ERDRC and Daylight Harvesting Applications

The ERDRC controller will turn the lights on or off and will modulate the light intensity from a dimming ballast fixture based on the ambient light level in the room. An Echoflex light sensor monitors light levels and must be linked to the ERDRC controller to provide the light level in the room.

When connected to a dimming fixture, the maximum dimming set point is the point where the dimming output begins to dim the fixture as the natural light increases. The minimum dimming set point is the point where the dimming output has reached its lowest point.

When only on/off lighting applications is needed, the Light-ON-Set point is the light level at which the light will turn on; the Light-OFF-Set point is the light level at which the light will turn off. Setting these set points

is covered later in this document under "**Configuring the ERDRC**".

The daylight harvesting application will override the Auto-ON feature of occupancy sensors if the light level is sufficient and calls for the lights to be off.

For example: If the daylight application calls for the light to be off, the motion sensor will not turn the lights back on.

The daylight harvesting application can be overridden by a manual wall switch when the light is off by clicking on. If the light level remains above the Light-OFF-Set point, the controller will turn the light off again after 250 seconds.

The daylight harvesting application does not affect the operation of the wall switch or motion sensor when the light is on. If the light is on, either the switch or motion sensor can override the light off.

Occupancy Based Lighting Applications

The ERDRC will turn the lights OFF when there is no motion detected in the room indicated by an Echoflex motion sensor. The ERDRC can be configured to turn the lights ON immediately (Auto-ON) if the motion sensor detects motion, see the section titled "**Configuring the ERDRC**".

There is a configurable time period between the last detected motion and the point where the lights turn off. There are 6 settings for this time out period. The time out period is 15 minutes by default but can be set to a value of 5 to 25 minutes in 5 minute increments, see the configuration section. The timer will reset if the sensor detects motion. If the timer expires, the light will turn off.

Multiple motion sensors can be ganged together logically so if only one sensor detects motion or the internal timer has not expired, the light will remain on.

Turning the lights on with a linked wall switch will reset the timer. Turning the light off with the wall switch will override Auto-ON (if enabled) for the duration of the time out period. Any motion detected by the sensor during this period will reset the timer. Once the timer has expired, the override will be released. If the wall switch is used to turn the light on during the time period, the override will also be released.

Wired Occupancy Sensor Applications

The ERDRC has a 24V output to power a wired occupancy sensor. It can be used with any brand of 24V occupancy sensor using single or dual technology. When a wired sensor is connected to the low voltage input, the ERDRC controller operates the same as if it was a wireless sensor. The occupancy state of a connected wireless sensor can be shared with other controllers by linking the ERDRC to those controllers. Linking the ERDRC to other controllers is covered later in this document under the section, “**Configuring the Status Telegram**”.

Radio Range Planning

The ERDRC controller is intended to be used with switches, sensors and actuators enabled with EnOcean PTM or STM transmitters. Locating the wireless transmitters to work with the installed ERDRC controller requires planning. Careful consideration should be made for locating the controllers based on the construction materials in the space and possibility of tenant's furniture disrupting the transmissions. Fire doors, elevator shafts, storage areas and any large metal products create radio shadows and will disrupt wireless transmissions.

On floor-plan drawings, draw 100 feet (30m) diameter circles to identify optimal transmitter and controller locations. Refer to the table for range considerations with other building materials.

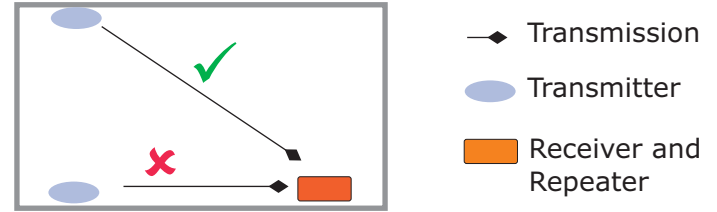
Material	Attenuation
Wood	0 - 10%
Plaster	0 - 10%
Glass	0 - 10%
Brick	5 - 35%
MDF	5 - 35%
Ferroconcrete	10 - 90%
Metal	90 - 100%
Aluminum	90 - 100%

Material	Range-typical
Line of site:	100' (30m) corridors
Line of site:	330' (100m) open halls
Plasterboard:	100' (30m) through 5 walls
Brick:	65' (20m) through 3 walls
Concrete:	65' (20m) through 3 walls
FerroConcrete:	33' (10m)
Ceiling:	1 ceiling

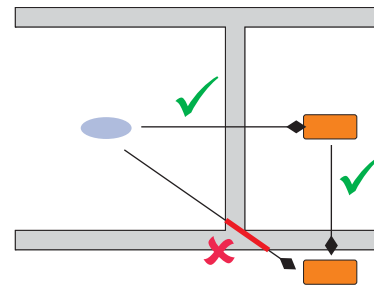
For more information about range planning, please refer to the range planning guide downloaded from www.echoflexsolutions.com.

Layout Hints

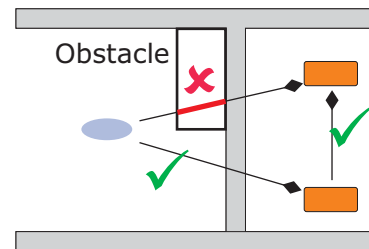
⇒ Avoid transmitting down a length of wall to reduce signal reflection.



⇒ Avoid transmissions that must penetrate walls at acute angles. This increases the wall material the telegram must pass through, greatly reducing the signal power.



⇒ Avoid large obstructions. Place receivers in alternate locations to avoid the radio shadow or use repeaters to go around the obstacle.



⇒ Do not locate receivers close to other high frequency transmitters. Leave at least 2' between the receiver and any other source of interference including lighting ballasts, computers, video equipment, Wi-Fi/LAN routers, GSM modems and monitors. Transmitters are not affected by these sources of interference.

Preparing to Install the ERDRC

The ERDRC is mounted to an electrical junction box or panel with a 1/2" threaded nipple. The ERDRC must be mounted on the outside of a junction box either directly at the electrical load or before the load in the circuit. The ERDRC is for indoor use only.

You will require hand tools to gain access to the junction box and remove any cover plates or other hardware. A pin or pen may be needed for pressing the controller buttons when assigning the wireless switches.

Important Safety Instructions

WARNING:

ELECTRICAL SHOCK HAZARD



THE ERDRC USES HIGH VOLTAGE AND SHOULD ONLY BE INSTALLED BY A QUALIFIED INSTALLER OR ELECTRICIAN. FOLLOW ALL APPLICABLE ELECTRICAL CODES IN THE COUNTRY OF INSTALLATION. FOR INDOOR USE ONLY.

Installing the ERDRC

Review these instructions completely before installing the ERDRC controller.

- 1) Locate the circuit breaker panel and turn off the power to the circuit.
- 2) Remove all face plates and other hardware from the junction box so you can access the high voltage wires.
- 3) The ERDRC is mounted to the exterior of the junction box or panel with the 1/2" threaded nipple.
- 3) Refer to the wiring diagram to connect the ERDRC to the line power, neutral and load wires. Use wire nuts on all connections and cap any bare wires.
- 4) Replace the junction box faceplate.
- 5) Restore power to the circuit.
- 6) Refer to the section in this guide titled **LEARN Button** to assign a switch to the controller. Alternatively, refer to the Smart Click instructions on page 4 for assigning switches remotely.

Using the ERDRC with a wired wall switch:

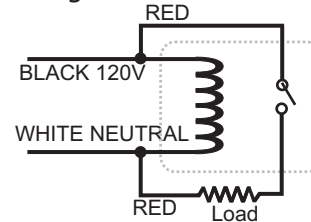
If the circuit will have an additional hard wired switch, wire the ERDRC in series before the switch.

Wiring Instructions

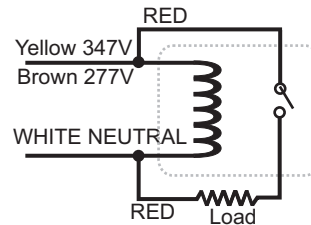
Power to the controller is connected between the White (Neutral) and the Black (120V). Optionally, based on model number, commercial voltages are applied between the White (Neutral) and the Brown(277V) or Yellow(347V). (see wiring diagram).

The ERDRC has an orange external antenna. Do not cut this wire or connect.

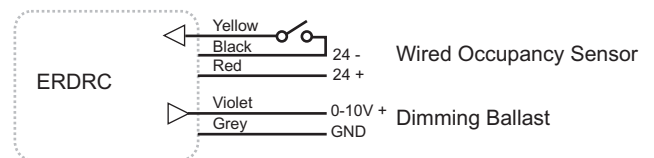
Use only approved wire. Cap off all unused wires except the orange antenna wire.



ERDRC-DC Wiring Diagram using 120V line power



ERDRC-DC Wiring Diagram using 277V or 347V line power



ERDRC-DC Low Voltage Wiring Diagram

Connection	Color	Specification
LOAD x 2	Red	14AWG, 600V
Neutral	White	18AWG
Line 120VAC	Black	18AWG
Line 277VAC*	Brown	18AWG
Line 347VAC*	Yellow	18AWG
Dimming 0-10V	Violet	22AWG
Dimming GND	Grey	22AWG
24V+	Red	22AWG
24V GND	Black	22AWG
Sensor Input	Yellow	22AWG

***not used in all models**

Diagnostic LED's and buttons

LEARN button – The LEARN button is used to link a switch or switch to the ERDRC controller.

1. Press the button inside the LEARN hole for a half second. In link mode the POWER led will stay ON and the LEARN led will toggle every 2 seconds.
2. Using the switch that you will link to the controller, press the wall switch three times. If linking a sensor, press the sensors TEACH button. The LEARN led will remain lit for 4 seconds while it links the new device. It will resume toggling allowing you to link another device up to a total of 30 devices. Linking a switch or sensor that is already linked to a controller, will remove or un-link it from the controller.
3. To exit link mode, press the LEARN button on the ERDRC controller again for a half second. Link mode will time out after no activity in 30 seconds.

CLEAR button – The CLEAR button erases all devices linked to the ERDRC controller and resets the controller to factory default settings.

Press the button inside the CLEAR hole for 5 seconds. The LEARN led will flash ON for 1 second and then OFF to complete the step.

The table below describes the LED activity and associated mode of the controller.

Description	POWER	LEARN
LINK mode	Toggle 2 sec.	ON
Storing ID	ON 4 sec.	ON
Clearing ID	OFF 4 sec.	ON
CLEAR mode	N/A	ON 1 sec.
Normal operation:	see below	OFF
w/o linked switch	POWER led ON w/relay closed, factory default	
w/ linked switch	POWER led- one long blink followed by short blinks counting the switches linked, repeated.	
Occ. Sensor	POWER led-two long blinks followed by short blinks counting sensors linked.	
Wireless Photo Sensor	POWER led-three long blinks followed by short blinks counting sensors linked.	

Configuring the ERDRC

There are two methods of configuring parameters in the ERDRC controller. Simple Tap is a quick method of changing a parameters setting, one at a time. For accessing the complete set of configuration parameters, use the Smart Click process on the following pages.

Simple Tap Instructions

Simple Tap uses the switches and sensors that are linked to the ERDRC controller to set the associated configuration parameters. You must be able to access the sensors teach button or the switches to perform the simple tap process. If the sensor is linked to multiple controllers and you do not want to make changes to all, turn the controllers relay off (lights off) to ignore the Simple Tap changes.

Simple Tap allows you to:

- Enable or disable the motion sensor Auto-ON feature
- Set the motion sensor Auto-OFF timer
- Set the Light ON/OFF or dimming set points

Disable/Enable the Auto-ON feature - With the light on, tap the occupancy sensors teach button followed by three quick consecutive clicks of a linked wall switch ON. To enable Auto-ON, click once more ON, to disable click OFF. The light will blink once to confirm the change.

Set the Motion Sensor Auto-OFF timer - With the light on, tap the occupancy sensors teach button to reset the timer period. There are 6 possible settings and the number of taps on the button counts the number according to the time period, see the table below. Level 1 (time out 0 seconds - demo mode) is set by tapping 3 times, consecutive taps up to a maximum of 8 taps is Level 6 (time out 25 minutes).The relay/light will blink once on the third tap and then begin counting the level set after 3 seconds.

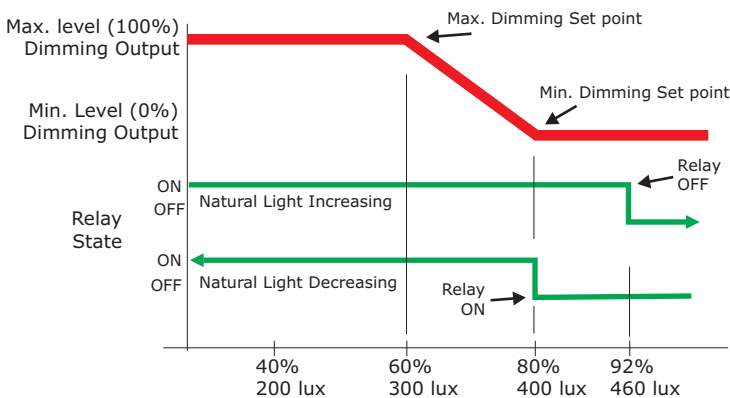
Taps	Occ.Sensor Timer	Light Blinks
3 taps*	0 sec.	1 blink
4 taps	5 min.	2 blinks
5 taps	10 min.	3 blinks
6 taps	15 min.	4 blinks
7 taps	20 min.	5 blinks
8 taps	25 min.	6 blinks

* for demonstration purposes only

Set the Lighting Set points: The controller will turn the light on and off or will modulate the dimming output (if enabled) based on the measured light level from the light sensor. The set point values are a percentage of the full range of the sensor.

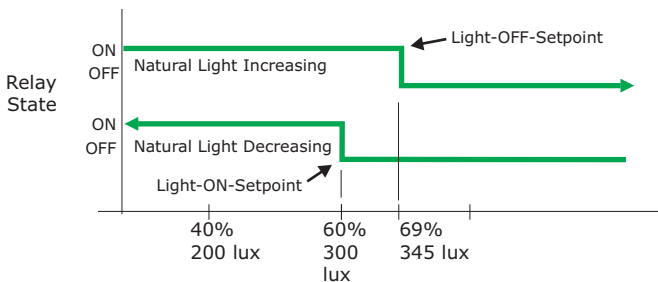
For example: A 500 lux light sensor has a full range from 0 lux to 500 lux. The value of the set point is equal to the percentage of 500 lux. If the set point is 60% and the dimming output is enabled then the lux value when the light begins to dim down is 300 lux [60% of 500 lux] measured at the sensor.

The dimming output will modulate over a 20% range of the sensor so the dimming output will reach 0% or 0V at 400 lux (80% of 500 lux), the minimum dimming set-point, see red line in graph below. The relay will open (lights off) when the light level increases 15% past the minimum dimming set point, see green line in graph below. The lights will remain off until the light level decreases to the minimum dimming set-point where the relay will close (lights ON) and the dimming output will increase as the natural light decreases.



Control Response with Dimming Output Enabled

If the dimming output is disabled, the set point becomes the light level where the relay will close and turn the lights ON or the Light-ON-Set point. The Light-OFF-Set point is 15% greater than the Light-ON-Set point. In this example, the Light-OFF-Set point = 1.15% x 60 = 69% or 345 lux.



Control Response with Dimming Output Disabled

There are two methods of setting the lighting set-points.

1.) Setting the light level set point to an optimum value - You can adjust the light level to a comfortable setting and have the controller maintain this light level. This process is useful in closed loop sensor applications where the sensor reading is affected by the fixture output (ceiling mount, near a window, office applications). This set point becomes the maximum dimming set point when the dimming output is enabled. When the dimming output is not enabled, the Light-ON-Set point is adjusted 7.5% below and the OFF set point 7.5% above this optimum room light level.

- With the light on, tap the light sensors teach button 3 times to set the light level set points using the current existing light level recorded at the sensor. The light will blink once to acknowledge the change.
- Move away from the sensor to avoid affecting the light level. The next transmitted light value from the sensor will be used to set either the maximum dimming set point or the light-on-set point.
- The light will blink once again to complete the process.

2.) Setting the set point to an absolute value - You may also set the lighting set point to an absolute value useful in open-loop sensor applications. If the dimming output is enabled, the absolute value selected becomes the maximum dimming set point. If the output is disabled, the absolute value selected becomes the Light-ON-Set point.

- With the light on, tap the light sensors teach button 4 times to set the set point to 20%.
- Tap the button additional presses incrementing the set point value by 20%. Five (5) taps would equal 40%, seven (7) taps would be 80%.
- The light will blink once at three taps and then begin blinking according to the level set to confirm the change after 3 seconds.

Absolute Set points with Dimming Output Enabled

Taps	Max.Dim SP	Min.Dim SP	Blinks
3 taps	Sensor	Sensor+20%	1 blink
4 taps	20%	40%	2 blinks
5 taps	40%	60%	3 blinks
6 taps	60%	80%	4 blinks
7 taps	80%	100%	5 blinks

Absolute Set points with Dimming Output Disabled

<u>Taps</u>	<u>Light-OFF SP</u>	<u>Light-ON SP</u>	<u>Blinks</u>
3 taps	Sensor+7.5%	Sensor-7.5%	1 blink
4 taps	23%	20%	2 blinks
5 taps	46%	40%	3 blinks
6 taps	69%	60%	4 blinks
7 taps	92%	80%	5 blinks

Default Settings for ERDRC

Repeater	disabled
Status	disabled
Dimming Output	enabled
Time-outs	
motion sensor	15 minutes
switch	no time out
Auto-ON	enabled with no linked switch, disabled with linked wall switch
Light-ON-Setpoint	60% of sensor FSR
Light-OFF-Setpoint	85% of Light-ON-Setpoint
Maximum Dimming Level	100%
Minimum Dimming Level	0%

Status Feedback Telegram

EEP:A5-11-01
DB_3 Illumination
 0 ... 510lx, linear n=0...255
DB_2 Illumination Set Point
 Min. ... Max., linear n=0...255
DB_1: Dimming Output
 Level Min. ... Max., linear n=0...255
DB_0.BIT_7: Repeater
 0b0 disabled, 0b1 enabled
DB_0.BIT_6: Power Relay Timer
 0b0 disabled 0b1 enabled
DB_0.BIT_5: Daylight Harvesting
 0b0 disabled 0b1 enabled
DB_0.BIT_4: Dimming
 0b0 switching load 0b1 dimming load
DB_0.BIT_3: Learn button
 0b0 Teach-in telegram 0b1 Data telegram
DB_0.BIT_2: Magnet Contact
 0b0 open 0b1 closed
DB_0.BIT_1: Occupancy
 0b0 unoccupied 0b1 occupied
DB_0.BIT_0: Power Relay
 0b0 off 0b1 on

FCC and IC Licensing

Contains FCC ID: SZV-TCM320C

The enclosed device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(I.) this device may not cause harmful interference and

(ii.) this device must accept any interference received, including interference that may cause undesired operation.

Contains IC: 5713A-TCM320C

Using Smart Click to Configure the ERDRC

Configuring the ERDRC controller requires that at least one wireless PTM wall switch is linked to the controller.

The Smart Click menu includes these parameters:

Level 1	Learn Mode
Level 2	Clear Switch/Clear All
Level 3	Repeater Function
Level 4	Status Telegram Function
Level 5	Time out Periods
Level 6	Auto-ON with Motion Function
Level 7	Dimming Output Function
Level 8	Light-ON-Setpoint
Level 9	Maximum Dimming Output
Level 10	Minimum Dimming Output

Linking the First Switch

⇒ With the ERDRC controller in the factory default state, click the PTM switch ON three times, OFF three times and ON three times quickly.

Using this method of linking a switch will only work on the first PTM switch. Use Smart Click to link additional switches or to configure the controller parameters.

Entering Smart Click Configuration Mode

It is important to have feedback (light) from the ERDRC controller during configuration.

- ⇒ Using a linked switch (see above), turn the light OFF.
- ⇒ Click and hold the switch OFF for 10 seconds. The light will blink once and then turn on. If the switch is linked to more than 1 ERDRC controller you will have to click the ON side of the switch until the controller you wish to configure is selected indicated by the light turning ON.
- ⇒ Press ON for 5 seconds. The light will begin blinking once.

Linking an additional switch or sensor

- ⇒ Enter Smart Click configuration mode and with the light blinking once, press ON for 3 seconds. The light will begin blinking ON/OFF every second.
- ⇒ Add additional PTM switches by clicking ON 3 times quickly. Add sensors by pressing the TEACH button on the sensor.
- ⇒ To continue with configuration, press the switch ON for 3 seconds, the light will resume blinking once. To exit Smart Click press OFF for 5 seconds.

Clear switches or sensors (restore factory defaults)

- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking twice. Press ON for three seconds.
- ⇒ Click the switch ON 5 times to clear the switch, click ON 5 times again to clear ALL switches and sensors and reset the ERDRC to factory defaults.
- ⇒ Press OFF for 5 seconds to complete clearing.

Repeater Function - repeats any telegram within range. EnOcean telegrams can only be repeated once.

The repeater function can be enabled/disabled by accessing the controller buttons. Press the Clear button and hold then quickly press the Learn button once to disable, twice to enable. The learn led will blink once when disabling, twice when enabling the repeater function. Release the Clear button. If there is no access to the controllers buttons, follow the Smart Click steps below.

- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking three times.
- ⇒ Press ON for 3 seconds. If the repeater function is enabled the light will turn ON, if disabled the light will be OFF.
- ⇒ Click ON to activate this function, OFF to deactivate.
- ⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking three times. To exit Smart Click press OFF for 5 seconds.

Status Telegram - the ERDRC can broadcast a status telegram per EEP: A5-11-01. The telegram will broadcast every 100 seconds. Refer to the table on page 9 for a detailed explanation of the telegram.

If the ERDRC has a wired occupancy sensor connected to the low voltage input, this sensor status can be shared with other controllers. The ERDRC must be first linked with the receiving controllers. Enabling the status telegram activates the shared occupancy feature and also sends the learn command to the other controllers for linking.

The status telegram can be enabled/disabled by accessing the controller buttons. Press the Learn button and hold, press the Clear button once to disable, twice to enable (this sends the learn telegram). Release the Learn button. The learn led will blink once when disabling, twice when enabling this telegram.

If there is no access to the controllers buttons, follow these Smart Click steps.

- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking four times
- ⇒ Press ON for 3 seconds. If the status telegram function is enabled the light will turn ON, if disabled the light will be OFF
- ⇒ Click ON to activate this function, OFF to deactivate
- ⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking four times. To exit Smart Click press OFF for 5 seconds

Timeouts - the ERDRC can be configured to wait a period of time after an ON event from a PTM switch or occupancy sensor before turning the load OFF (auto-off).

- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking five times.
- ⇒ Press ON for 3 seconds. The light will turn OFF and then ON per the table settings below.

Light	Timed Switch	Occ.Sensor Timer
OFF	no auto-off	0 sec. (demo)
1 Blink	5 min.	5 min.
2 Blinks	15 min.	10 min.
3 Blinks	30 min.	15 min.
4 Blinks	60 min.	20 min.
5 Blinks	n/a	25 min.

- ⇒ Click ON to move down the table, OFF to move up.
- ⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking five times. To exit Smart Click press OFF for 5 seconds.

Auto-ON Function - use with an motion sensor to turn lights ON automatically when motion is detected. If a motion sensor is used with no switch then Auto-ON is enabled automatically. If a switch is linked later, Auto-ON is disabled.

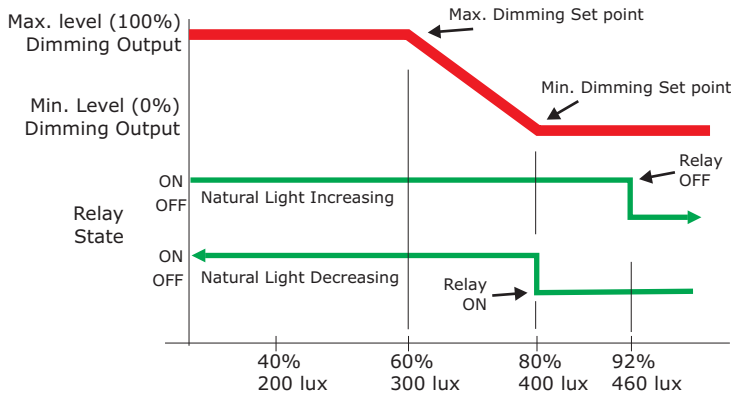
- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking six times.
- ⇒ Press ON for 3 seconds. If the auto-on function is enabled the light will turn ON, if disabled the light will be OFF
- ⇒ Click ON to activate this function, OFF to deactivate
- ⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking six times. To exit Smart Click press OFF for 5 seconds.

Dimming Ballast Output - Enables or disables the dimming ballast output.

- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking seven times.
- ⇒ Press ON for 3 seconds. If the dimming output is enabled the light will turn ON, if disabled the light will be OFF
- ⇒ Click ON to activate this function, OFF to deactivate.
- ⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking seven times. To exit Smart Click press OFF for 5 seconds.

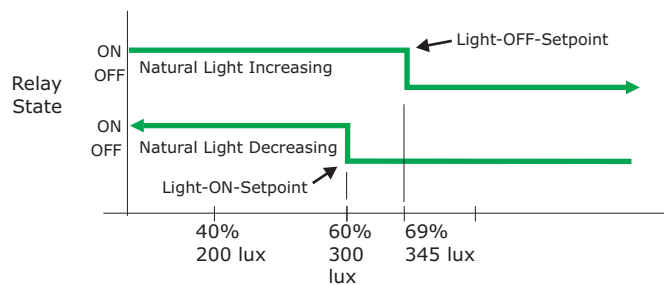
Lighting Set point - use with a open-loop photo sensor (light sensor) to automatically turn lights on and off or modulate dimming fixtures depending on ambient light levels. If the light from the fixture does not impact the light reading at the sensor then it is an open loop application.

When the dimming output is enabled, the value selected becomes the maximum dimming set point. With the dimming output disabled, the value becomes the Light-ON-Set point.



Control Response with Dimming Output Enabled

In the diagram, the red line indicates the dimming output. The output will begin lowering as the light level increases. The point where the light output begins dimming down is the maximum dimming set point. The minimum dimming set point is 20% greater than this value.



Control Response with Dimming Output Disabled

- ⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking eight times.
- ⇒ Press ON for 3 seconds. Default setting is 60% of the light sensors full range. If the dimming output is enabled, there are 10 steps from 10% to 100% - the light will blink the step count. If the dimming output is disabled, then there 5 steps, 20% to 100% in 20% increments.

Light Blinks	Lighting Set point
1 Blink	10%
2 Blinks	20%
3 Blinks	30%
4 Blinks	40%
5 Blinks	50%
6 Blinks	60% default
7 Blinks	70%
8 Blinks	80%
9 Blinks	90%
10 Blinks	100%

⇒ Click on to increase the set-point, off to decrease the set-point.

⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking eight times. To exit Smart Click press OFF for 5 seconds.

Maximum Dimming Output Level - sets the maximum level of the dimming output.

⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking nine times.

⇒ Press ON for 3 seconds. Default setting is 100%. Adjust the max. light level to the brightness level desired by clicking ON to increase and OFF to decrease in 2% increments.

⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking nine times. To exit Smart Click press OFF for 5 seconds.

Minimum Dimming Output Level - sets the minimum level of the dimming output.

⇒ Enter Smart Click configuration mode and click the switch ON or OFF until the light is blinking ten times.

⇒ Press ON for 3 seconds. Default setting is 0%. Adjust the min. light level to the brightness level desired by clicking ON to increase and OFF to decrease in 2% increments.

⇒ To continue with configuration, press ON for 3 seconds, the light will resume blinking ten times.

This concludes the configuration directions for the ERDRC controller.