

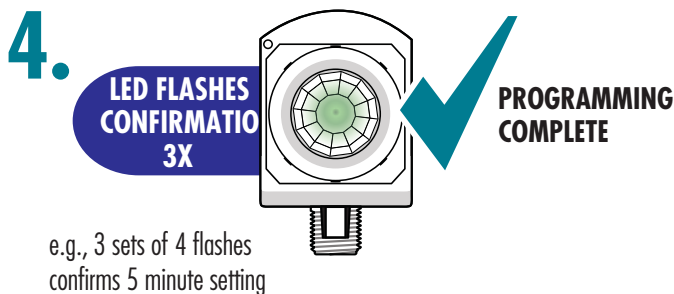
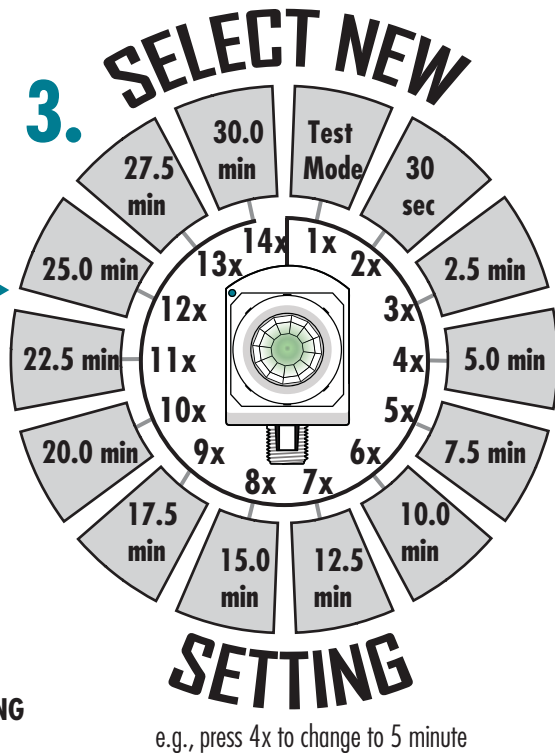
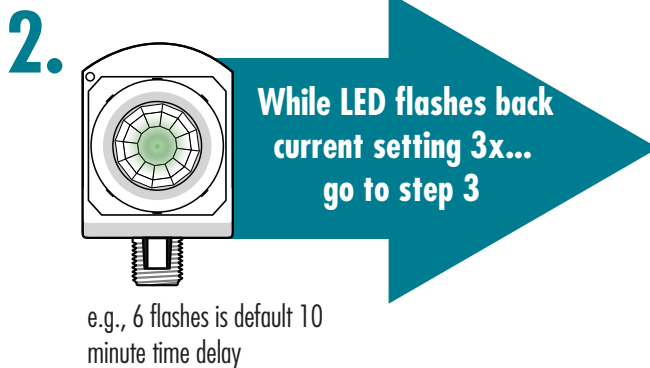
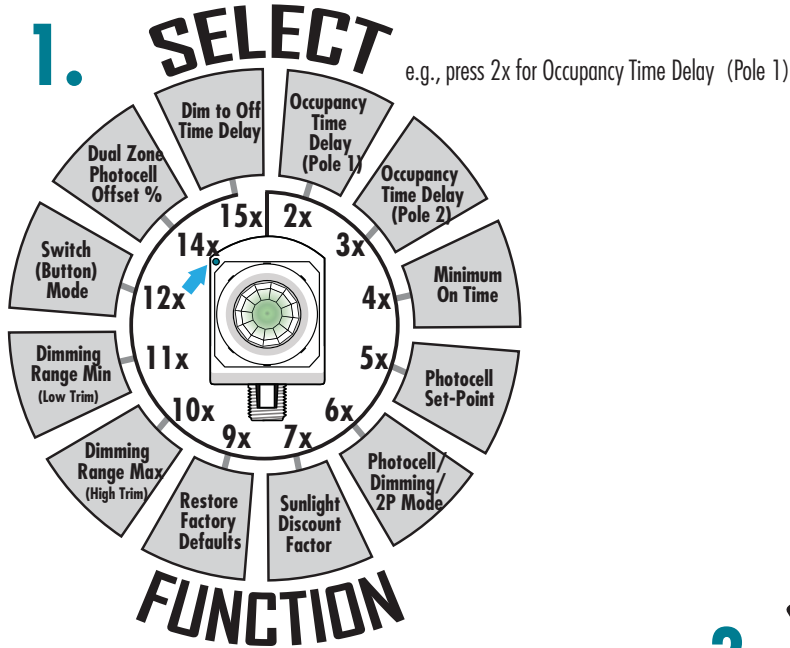
programming instructions

Operational settings can be changed via the push-button sequence outlined below (note the example used is for changing pole 1 occupancy time delay).

Programming for Controls:

PH41623 and PH77409

NOTE: PH41623 is Motion Sensing Only



operational settings

NOTE: (*) Indicates factory default (unless otherwise marked)

2 = Occupancy Time Delay (Pole 1)

The length of time the sensor will keep the lights controlled by relay 1 on and at full bright after it last detects occupancy, assuming Minimum On Time (Function 4) has been met.

| | | | | | |
|---|-------------|----|-----------|----|----------|
| 1 | Test Mode** | 6 | 10.0 min* | 11 | 22.5 min |
| 2 | 30 sec | 7 | 12.5 min | 12 | 25.0 min |
| 3 | 2.5 min | 8 | 15.0 min | 13 | 27.5 min |
| 4 | 5.0 min | 9 | 17.5 min | 14 | 30.0 min |
| 5 | 7.5 min | 10 | 20.0 min | | |

For additional time settings, contact technical support at 1.800.PASSIVE

* Standard default unless specified in model number

** Test mode disables Minimum On Time (Function 4), sets Occupancy Time Delay (Function 2 & 3) to 30 sec, and shortens photocell transition times and dimming rate. Mode will expire after 10 min or if Function 2 is set back to a time delay.

3 = Occupancy Time Delay (Pole 2)

The length of time the sensor will keep the lights controlled by relay 2 (if present) on after it last detects occupancy, assuming minimum on time (Function 4) has been met.

| | | | | | |
|---|---------|----|-----------|----|----------|
| 1 | NA | 6 | 10.0 min* | 11 | 22.5 min |
| 2 | 30 sec | 7 | 12.5 min | 12 | 25.0 min |
| 3 | 2.5 min | 8 | 15.0 min | 13 | 27.5 min |
| 4 | 5.0 min | 9 | 17.5 min | 14 | 30.0 min |
| 5 | 7.5 min | 10 | 20.0 min | | |

* Standard default unless specified in model number

4 = Minimum On Time (Lamp Maximizer)

The length of time required for lamps to be on in order to prevent short cycling that reduces fluorescent lamp life. If occupancy time delay expires prior to minimum on time being satisfied, the lamps will remain on until time has been met.

| | | | | | |
|---|---------|---|--------|---|--------|
| 1 | 0 min** | 3 | 30 min | 5 | 60 min |
| 2 | 15 min* | 4 | 45 min | | |

* Standard default, reverts to 0 min if occ. time delay is changed from 10M

**Default for 5M, 15M, 20M, 30M option versions

5 = Photocell Set-Point

The target light level (at the sensor) that is to be maintained. Selecting Auto (Setting 1) will initiate on/off cycling procedure where sensor finds close-loop set-point. Not applicable to non-photocell versions.

| | | | | | |
|---|--------|---|---------|---|---------|
| 1 | Auto | 4 | 2.0 fc | 7 | 16.0 fc |
| 2 | 0.5 fc | 5 | 4.0 fc* | 8 | 32.0 fc |
| 3 | 1.0 fc | 6 | 8.0 fc | 9 | 64.0 fc |

6 = Photocell / Dimming / 2-Pole Modes

Single Relay Units with P (Photocell) Option:

- Disabled:** Photocell does not affect lights.
- Full On/Off Ctrl*:** Provides increased energy savings by switching lights off during occupied periods with sufficient daylight contribution from windows or skylights. Lights will be switched back on if light level falls below set-point.
- Inhibit Only Ctrl:** Photocell will prevent lights from initially turning on if adequate daylight is available, but will not turn lights off.

Units with ADC or ANL (Dimming) Options:

- Disabled:** Photocell does not affect lights.
- Automatic Dimming & Switching (-ADC):** Enables the sensor during occupied periods to dim lights down and then turn them completely off by opening the relay.
- Combination Dimming & Switching Photocell w/ High/Low Occ. Operation (-ANL):** Provides maximum energy savings by dimming and/or switching off lighting during periods of sufficient daylight contribution from windows or skylights. During unoccupied periods without sufficient daylight lights are dropped to low dim setting, insuring minimum light levels are maintained at night.

Dual Relay (2P) Units - All Options:

- Photocell (if present) is Disabled.
- Standard Photocell Option (-P):** Photocell controls both relays together with a single set-point.
- Single Zone (-SZ) Photocell Option:** Relay 1 controlled by photocell only, relay 2 controlled by occupancy only.
- Dual Zone (-DZ) Photocell Option:** Relay 1 controlled according to set-point; relay 2 controlled at fixed % higher as specified in Dual Zone Photocell Offset % (Function 14).
- Inhibit Only Ctrl:** Photocell will prevent lights from initially turning on if adequate daylight is available, but will not turn lights off. Photocell controls both relays according to set-point.
- Alternating Off Relays (-AO):** Both relays close during periods of occupancy, but only one opens during periods of vacancy. The relay left closed is alternated in order to promote even lamp wear.
- Alternating Off Relays w/ Photocell (-AOP):** Both relays close during periods of occupancy, but only one opens during periods of vacancy or high daylight. The relay left closed is alternated in order to promote even lamp wear.

7 = Sunlight Discount Factor

Value used to improve the tracking accuracy of a sensor with a photocell during periods of high daylight. Decreasing the value will lower the controlled level of the lights.

| | | | | | | | |
|---|------|---|-----|---|-----|----|------|
| 1 | x/1* | 4 | x/4 | 7 | x/7 | 10 | x/10 |
| 2 | x/2 | 5 | x/5 | 8 | x/8 | | |
| 3 | x/3 | 6 | x/6 | 9 | x/9 | | |

9 = Restore Factory Defaults

Returns all functions to original settings.

- Maintain Current*
- Restore Defaults

10 = Dimming Range Max (High Trim)

The maximum output level of a sensor with dimming. Default is "10 VDC" unless indicated in model number.

| | | | | | | | |
|---|-------|---|-------|---|-------|----|---------|
| 1 | Off | 4 | 3 VDC | 7 | 6 VDC | 10 | 9 VDC |
| 2 | 1 VDC | 5 | 4 VDC | 8 | 7 VDC | 11 | 10 VDC* |
| 3 | 2 VDC | 6 | 5 VDC | 9 | 8 VDC | | |

11 = Dimming Range Min (Low Trim)

For sensors with -ADC or -ANL option, this setting is the minimum output level to which the photocell will dim the lights. For lights to turn off from daylight, setting 1 must be selected.

Also, for all sensors with dimming, this setting is the dim level the lights will drop to when the Occupancy Time Delay (Function 2) expires. Note if the relay is wired, lights will still turn completely off after the Dim to Off Occupancy Time Delay (Function 15) expires.

| | | | | | | | |
|---|---------|---|-------|---|-------|----|--------|
| 1 | Off* | 4 | 3 VDC | 7 | 6 VDC | 10 | 9 VDC |
| 2 | 1 VDC** | 5 | 4 VDC | 8 | 7 VDC | 11 | 10 VDC |
| 3 | 2 VDC | 6 | 5 VDC | 9 | 8 VDC | | |

*Indicates default unless otherwise specified in model number

**Indicates default for -HL option unless otherwise specified in model number

12 = Switch (Button) Mode

When enabled, mode allows user to switch the relay by pressing the push button for test purposes (e.g., in order to test wiring). Note there is a short delay after pushing the button before the relay switches.

- Disabled*
- Enabled

14 = Dual Zone Photocell Offset %

Relative value of photocell set-point that is used to control relay 2. Applies only to dual relay (2P) units with the -DZ option.

| | | | | | | | |
|---|------|---|-------|---|------|----|------|
| 1 | 110% | 4 | 140% | 7 | 170% | 10 | 200% |
| 2 | 120% | 5 | 150%* | 8 | 180% | | |
| 3 | 130% | 6 | 160% | 9 | 190% | | |

15 = Dim to Off Occupancy Time Delay

After the Occupancy Time Delay (Function 2) has expired, this setting specifies the amount of time lights are held at minimum dim (Function 11) before turning off. Setting is only applicable for sensors with -HL and -ADC dimming options.

| | | | | | |
|---|-----------|---|----------|----|--------------|
| 1 | 0 sec* | 5 | 7.5 min | 9 | 17.5 min |
| 2 | 30 sec | 6 | 10.0 min | 10 | 20.0 min |
| 3 | 2.5 min** | 7 | 12.5 min | 11 | Stays at dim |
| 4 | 5.0 min | 8 | 15.0 min | | (never off) |

**HL default

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