

Operation Instructions

SPECIFICATIONS

Power supply	2 × AAA 1.5V batteries, alkaline preferred
Carrying case	RC-100 supplied in carrying case
Upload range	Up to 50 ft (15 m)
Operating temperature	32°F to 122°F (0°C to 50°C)
Dimensions	4.84" × 2.76" × 0.8" (123 × 70 × 20.3 mm)



Warning. Remove the batteries from the compartment if the remote will not be used for 30 days.

OVERVIEW

The RC-100 wireless IR configuration tool is a handheld remote for configuring IR-enabled fixture-integrated sensors. It lets you modify sensor settings by pushbutton, without ladders or tools, and stores up to four sensor parameter modes to speed up configuration of multiple sensors.

The remote uses bidirectional IR communication to send and receive sensor settings at mounting heights up to 50 ft. It can display previously established sensor parameters, copy parameters, send new parameters, or store parameter profiles. Where identical settings are wanted across many areas or spaces, settings can be copied throughout a site or between sites.



RC-100, supplied with carrying case

LED INDICATORS

BRIGHTNESS

High-end trim. Sets the output level of the connected lighting during occupancy.

SENSITIVITY

Sets the occupancy sensing sensitivity of the sensor.

HOLD TIME

The time after the area is vacated before the sensor turns the light off (if stand-by level is 0) or dims it to a low level.

DAYLIGHT SENSOR

Represents the natural light level thresholds for the sensor.

LUX SELECT

Selects the current surrounding lux value as the daylight threshold, so the fixture works correctly in real site conditions.

DAYLIGHT OFF

The daylight sensor stops working. Any detected motion turns on the fixture, regardless of how bright the natural light is.

STAND-BY DIM

Sets the output level of the connected lighting during vacancy. The sensor regulates output at the set level. A stand-by dim level of 0 means the light turns fully off during vacancy.

STAND-BY TIME

The time the sensor keeps the light at the low dim level after the hold time has elapsed.

BUTTON OPERATION

ON/OFF	The light goes to permanent-on or permanent-off mode and the sensor is disabled. You must press AUTO to leave this mode before setting.	AUTO	The sensor starts to function and all settings stay as they were before the light was switched on or off.
DISP	Displays the current or latest setting parameters on the LED indicators (the indicators light up to show the setting parameters).	TEST 2s	For testing sensitivity only. After choosing a sensitivity threshold, press TEST 2s ; the sensor enters test mode (hold time is only 2 s) and the stand-by period and daylight sensor are disabled. Press AUTO to leave this mode.
RESET	All settings go back to the DIP switch settings in the sensor.	◀▶	Navigate left and right to choose the value within the selected parameter row on the LED indicators.
▲▼	Enters the setting condition: the remote's parameter LEDs flash to be selected. Navigate up and down to choose the parameter row on the LED indicators.	DAYLIGHT	Opens and closes the smart daylight sensor. Press ▲ or ▼ to enter the setting condition (the remote's parameter LEDs flash), then press DAYLIGHT to open or close the smart daylight sensor.
OK	Confirms the selected parameters in the remote control.		
SEND	Uploads the current parameters to the sensor(s). The light connected to the sensor switches off and on to confirm.		
MODE 1-4	Four scene modes with preset parameters, which can be changed and saved in each mode.		

SETTING

The setting content contains all available settings and parameters for remote sensors. It lets you change the available controls, parameters and operation of the sensor from factory default or from the current parameters.

Change multiple settings of sensor(s)

- 1 Press **DISP**. The remote's LEDs show the latest parameters you set.
Note: if you pressed **ON/OFF** before, you must press **AUTO** to unlock the sensor.
- 2 Press **▲** or **▼** to enter the setting condition. The remote's parameter LEDs flash to be selected. Navigate to the desired setting with **▲** **▼** **◀** **▶** to select the new parameters.
- 3 Press **OK** to confirm all settings and save.
- 4 Aim at the target sensor and press **SEND** to upload the new parameters. The light connected to the sensor switches off and on to confirm.

NOTES

The key step of setting is pressing **▲** or **▼** to enter the setting condition.

The light connected to the sensor switches off and on after receiving the new parameters, as confirmation.

If you press **DISP**, the remote's LED indicators show the latest parameters that were sent.

SETTINGS WITH THE SMART PHOTOCELL SENSOR OPEN

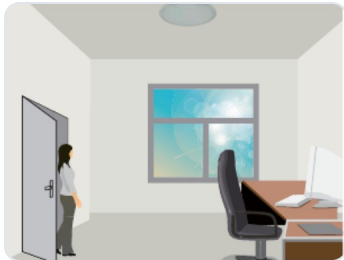
- 1 Press **DISP**. The remote's LED indicators show the latest parameters.
- 2 Press **▲** or **▼** to enter the setting condition. The remote's parameter LEDs flash to be selected.
- 3 Press **DAYLIGHT**. Two LED indicators flash in the daylight sensor row. Select 10 / 30 / 50 lux as the setpoint to switch the light on automatically, and 100 / 300 / 500 lux as the setpoint to switch it off automatically.
- 4 Press **OK** to confirm all settings and save.
- 5 Aim at the target sensor and press **SEND** to upload the new parameters. The light connected to the sensor switches off and on.

NOTES · **DAYLIGHT** IS DISABLED BY DEFAULT

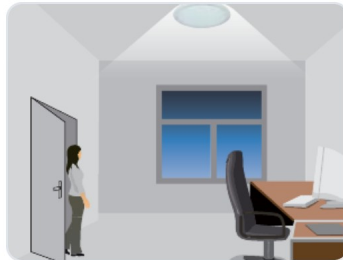
1. Open or close the smart daylight sensor by pressing **DAYLIGHT** while the remote is in the setting condition.
2. With the smart daylight sensor open, two LED indicators flash in the daylight sensor row: select 10 / 30 / 50 lux as the setpoint to switch on and 100 / 300 / 500 lux as the setpoint to switch off. With it closed, one LED indicator flashes to choose the daylight sensor threshold.
3. With the smart daylight sensor open, the stand-by time is $+\infty$ only.
4. The smart daylight sensor replaces the normal photocell sensor and works independently.
5. See Daylight Sensor Function below.

CORRIDOR FUNCTION

Built-in tri-level control for areas that require a light-change notice before switch-off. The sensor offers 3 light levels (100% → dimmed → off when natural light is insufficient) and 2 selectable waiting periods: motion hold-time and stand-by period. Daylight threshold and detection area are selectable.



1. With sufficient natural light, the light does not switch on when presence is detected.



2. With insufficient natural light, the sensor switches on the light automatically when presence is detected.



3. After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.

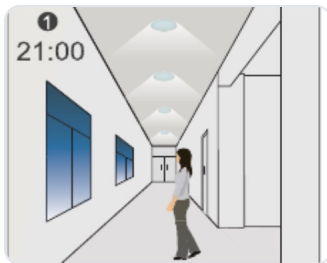


4. Light switches off automatically after the stand-by period elapses.

DAYLIGHT SENSOR FUNCTION

Continues on page 4

Open the daylight sensor by pressing **DAYLIGHT** while the remote control is in the setting condition.



1 · 21:00 The light switches on at 100% when movement is detected.



2 · 21:10 The light dims to stand-by level after the hold-time.



3 · 21:40 The light remains at dimming level at night.

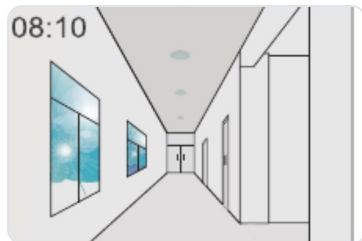
SETTINGS ON THIS DEMONSTRATION

Hold-time: **30 min**
 Setpoint to light on: **50 lux**
 Setpoint to light off: **300 lux**
 Stand-by dim: **10%**
 Stand-by period: **$+\infty$**
 When the smart photocell sensor is open, the stand-by time is $+\infty$ only.

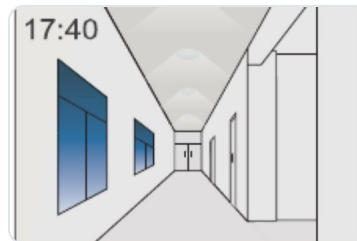
DAYLIGHT SENSOR FUNCTION (CONTINUED)

1 → 3 repeats in cycle at night

100% on when movement is detected, and dims to 10% in long absence.

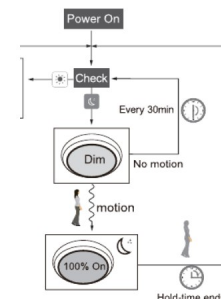


4 · 08:10 When natural light exceeds the setpoint-off level, the light turns off even if the space is occupied.



5 · 17:40 The light automatically turns on at 10% when natural light is insufficient (no motion).

LOGIC FLOW



CORRIDOR FUNCTION VS DAYLIGHT SENSOR FUNCTION

1. In corridor function, the light turns on only when the natural light level is below the daylight sensor setting and the space is occupied. In smart daylight sensor function, the light turns on when the natural light level is below the setpoint to light on, even if the space is vacant.
2. In corridor function, the light turns off when the stand-by time finishes with the space vacant. In smart daylight sensor function, the light turns off when the natural light level is above the setpoint to light off, even if the space is occupied.
3. In smart daylight sensor function, the natural light level must stay above or below the setpoint for at least 1 minute before the light turns off or on automatically.

RESET AND MODES 1-4

The remote comes with 4 scene modes, which are not defaults. Set the parameters you want and save them as a new mode (1, 2, 3 or 4) to configure the installed sensors. **Reset:** all settings go back to the DIP switch settings in the sensor.

MODE	BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT SENSOR	STAND-BY DIM	STAND-BY TIME
Mode 1	70%	20%	10 s	Off	0%	+∞
Mode 2	70%	20%	10 s	Off	0%	+∞
Mode 3	70%	20%	10 s	Off	0%	+∞
Mode 4	70%	20%	10 s	Off	0%	+∞

Change the modes

- 1 Press **MODE 1** / **MODE 2** / **MODE 3** / **MODE 4**. The remote's LED indicators show the existing parameters.
- 2 Press **▲** **▼** **◀** **▶** to select the new parameters.
- 3 Press **OK** to confirm all parameters and save them in the mode.

UPLOAD

The upload function configures the sensor with all parameters in one operation. You can select the current setting parameters or a mode for uploading; either is displayed on the remote control.

Upload the current parameters to sensor(s) and duplicate them from one sensor to another

- 1 Press **DISP**, or press **MODE 1** / **MODE 2** / **MODE 3** / **MODE 4**. All parameters are displayed on the remote control. **Note:** check that all parameters are correct; if not, change them.
- 2 Aim at the sensor and press **SEND**. The light connected to the sensor switches off and on to confirm. **Note:** if another sensor needs the same parameters, aim at that sensor and press **SEND**.