Columbia LIGHTING

CRN2-OCS
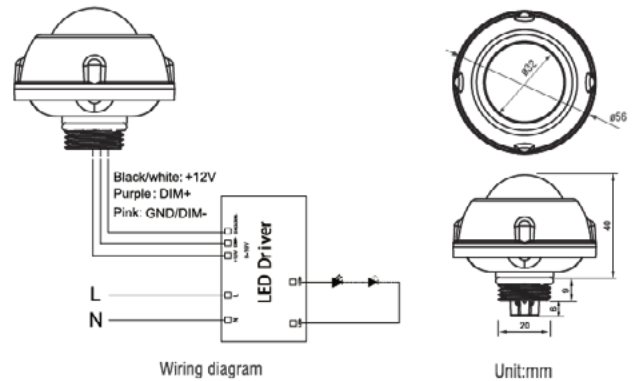MOTION SENSOR

Attention
1. Please read the instructions carefully before using this product and keep it for future reference.
2. The sensor should be installed by a qualified electrician and ensure power is off before the installation.
3. We reserve the right to modify any incorrect text, image and necessary technical parameters.
4. Any unauthorized modification is forbidden, otherwise all gaurantees will be immediately invalid.

Installation Precautions
1. Turn the power off at the circuit breaker before installing the sensor.
2. Do not allow bare wires to show.
3. Assemble any necessary mounting accessories.
4. Have the sensor's lens lower than edge of the fixture and keep the sensor away from heating part.

Application Enviroment
1. Do not mount it outdoors, as it is sensitive to temperature changes.
2. Do not mount in areas with sudden changes in temperature or airflow.
3. Do not have shelves between sensor to the presence area.

Black/white: +12V
Purple : DIM+
Pink: GND/DIM-

LED Driver

L
N

Wiring diagram

Unit:mm

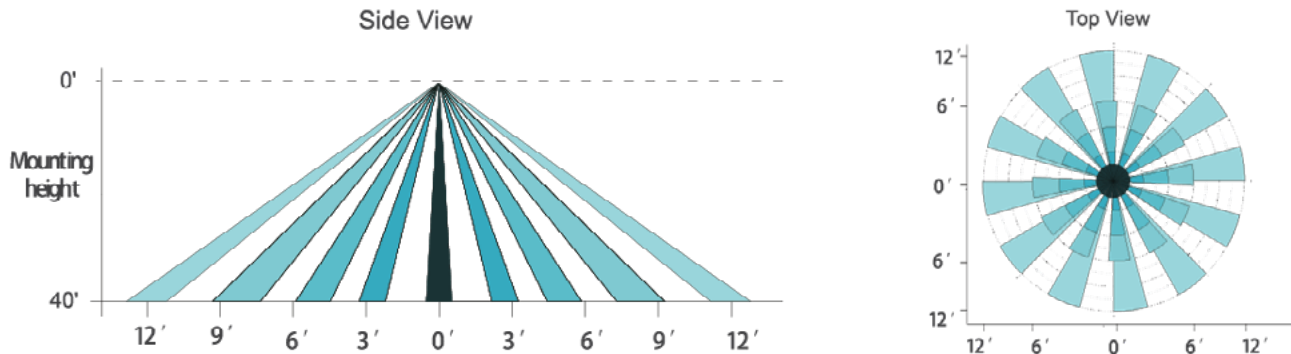| TECHNICAL DATA	
Operating Voltage:	12±2V DC
Operating Current	30mA
Output:	DIM 0-10V
Stand-by Power:	<0.5W
Brightness:	0%-100% Quick Setting: 70%/80%/90%/100%
Hold Time:	10s/1min/10min/30min
Daylight Threshold:	10Lux/30Lux/50Lux/100Lux/Disable
Stand-by Time:	1min/30min/60min + ∞
Stand-by Dimming Level:	10%/20%/30%/50%
Detection Angle:	≤120º (wall mounted), 360º (Ceiling mounted)
Mounting Height:	≤12m/39.37ft (Ceiling mounted)
Detection Range:	Radius, 2-4m/6.58-13.12ft (Ceiling mounted)
Operating Temperature:	-30ºC~+60ºC
IP Rating:	IP65 (Mounted on the light fixture)
Warm-up Period	50S

Note: Default setting - Brightness: 100%, Hold time: 1min, Stand-by dimming level: 20%, Stand-by time: 1min, Sensitivity: 100% (non-adjustable) Daylight: Disable.

Current

Columbia
LIGHTING

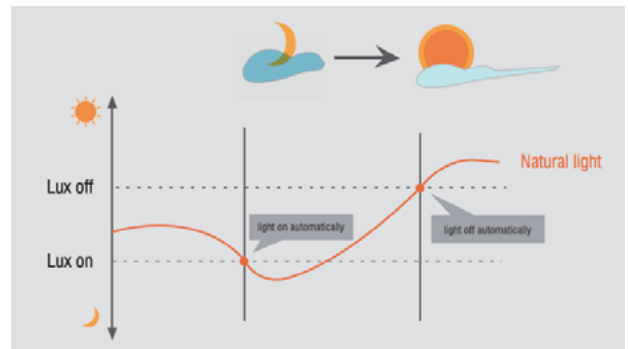## CRN2-OCS
MOTION SENSOR

DETECTION COVERAGE

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Side View

Top View

LUX ON/OFF

Adopted dual PD technology, PRC Motion Senseor is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Preconditions to use the Lux-off function:
1. **Stand-by time is + ∞**
2. **Stand-by dimming level is on 10%, 20%, 30%, or 50%**
3. **Daylight threshold is on 10Lux, 30Lux, 50Lux, or 100Lux (About 20% error between actual and reference values).**
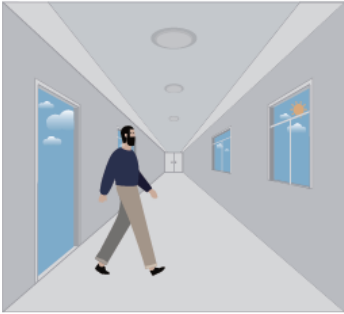

CRN2-OCS REMOTE

Display Area

BRIGHTNESS (70%/80%/90%/100%)
DAYLIGHT (10lx/30lx/50lx/100lx)
STANDBY DIM (10%/20%/30%/50%)

HOLD TIME (10S/1min/10min/30min)
SENSITIVITY (20%/50%/75%/100%)
STANDBY TIME (+ ∞ /1min/30min/60min)

Button Setting Area

ON/OFF (Long press the "ON/OFF" button until the brightness indicator light is on(First row).Press to turn on or turn off the fixtures.)

BRIGHTNESS (Press to adjust dimming level 70%/80%/90%/100%.)

SEND (Press to save settings after each change.The indicator light confirms the save setting.)

HOLD TIME (Press to adjust hold time 10s/1min/10min/30min.)

DAYLIGHT (Long press the button until the daylight indicator light is on,press to adjust daylight threshold 10lx/30lx/50lx/100lx.)

SENSITIVITY (Press to adjust sensitivity 20%/50%/75%/100%.) Note: PIR Motion Sensor have no sensitivity setting,the default 100%.

STANDBY DIM (Press to adjust stand-by dimming level 10%/20%/30%/50%.)

STANDBY TIME (Press to adjust stand-by time +∞ /1min/30min/60min.)
Note: "+∞ "means unlimited stand-by time,and the light control mode is the light control priority mode, otherwise it's the light threshold mode.

RESET
Press "RESET"button,products with DIP switch will be controlled by DIP switches;Otherwise all the setting will change,which is Brightness 70%/ Hold time 10s/ Sensitivity 20%/ Daylight threshold disable/Stand-by dimming level 10% / Stand-by time+∞.

TEST
The button "TEST"is for testing purpose after debugging.Pressing this button,the sensor goes to test mode(hold time is only 3s).

(+) Press to increase brightness(0~100%).

(−) Press to reduce brightness(100%~0%).

Current

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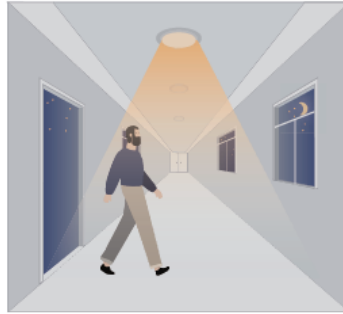COL_CRN2_OCS_install_R01

CRN2-OCS
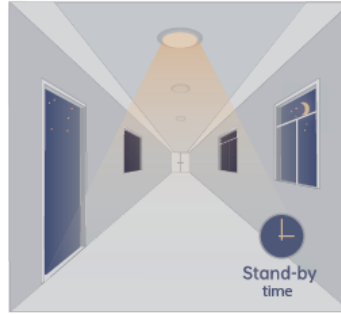MOTION SENSOR

CRN2-OCS PERFORMANCE
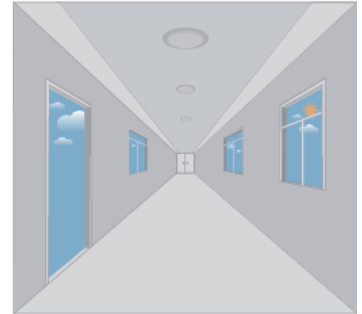
1. Automatic On/Off Functoin

With sufficient daylight, even when motion is detected, light will remain OFF.

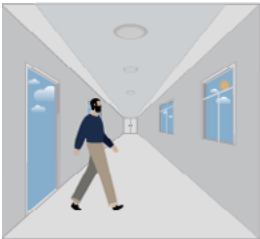With insufficient daylight, the sensor turns light ON when motion gets detected.

Light dims to stand-by level if no motion detected after hold time.
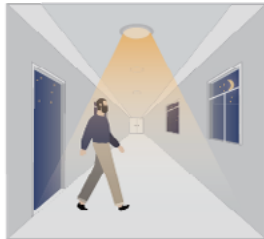
Light OFF when ambient lux level is higher than preset lux amount.
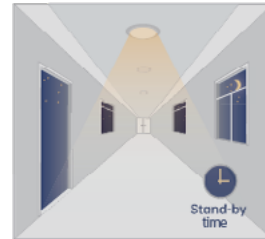
2. Corridor Function, Bi-level Dimmable

With sufficient daylight, the sensor keeps light OFF even motion gets detected, daylight function is on.

With insufficient daylight, the sensor turns light ON when motion gets detected.

After there's no motion detected, the sensor keeps light ON brightness setting for hold time.
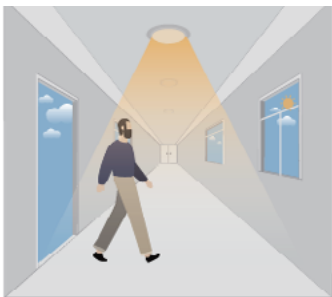
After holdtime, sensor dims light to stand-by dimming level for stand-by time.

The sensor turns OFF light automatically after the stand-by time when there's no motion detected.
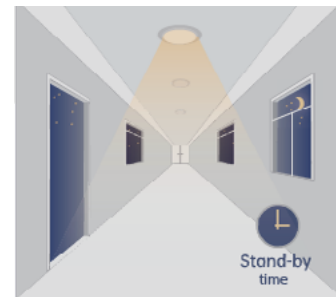
3. Daylight Disable

The sensor turns light ON when motion gets detected.

The sensor keeps light ON for hold time after motion leaves.

After hold time, sensor dims light to stand-by dimming level for stand-by time.

The sensor turns OFF light automatically after the stand-by time when there's no motion detected.