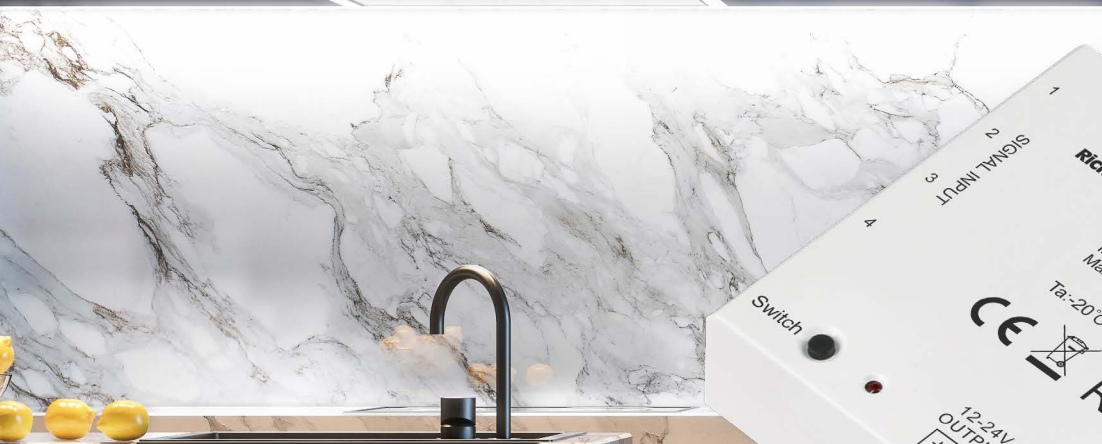




RICHELIEU SMART CONTROL

SENSOR LED CONTROLLER • SENSORS • PUSH SWITCH

INSTALLATION GUIDE

INSTALLATION GUIDE

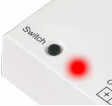
COLOR MODE SIGNAL GUIDE

SMART CONTROL SENSOR LED CONTROLLER

A single Sensor LED Controller using one of the sensors or push switch can be programmed to one of the 10 functions using the 6 color-coded modes. Simply push the switch on the controller until the color indicator light signals the desired color mode.

Sensor LED Controller
No. CBXSNS2005

Color indicator light normally stays off,
flashes when receives color mode signal

COLOR MODE	IR SENSOR TYPE A No. SNSIRWEA	IR SENSOR TYPE B No. SNSIRWEB	PIR SENSOR TYPE A No. SNSPIRWDA	PIR SENSOR TYPE B No. SNSPIRWDB	PUSH SWITCH No. SNSMCSOF
 RED Hand - on/off + dimming ZONED LIGHTS Each sensor only controls its corresponding LED output respectively. Wave hand, lights ON/OFF. Hold hand, lights DIM.	N/A	N/A	N/A	N/A	 Door open/close - on/off ZONED LIGHTS Each sensor only controls its corresponding LED output respectively. Door open/switch released, lights ON. Door closed/switch pressed, lights OFF.
 YELLOW Hand - on/off + dimming JOINED LIGHTS Wave hand over any 1 of 4 sensors, all 4 LED outputs turn ON/OFF at the same time. Hold hand, lights DIM at the same time.	N/A	N/A	N/A	N/A	N/A
 GREEN Hand - on/off ZONED LIGHTS Each sensor only controls its corresponding LED output respectively. Wave hand, lights ON/OFF.	N/A	 Door open/close - on/off ZONED LIGHTS Each sensor only controls its corresponding LED output respectively. Door open, lights ON. Door close, lights OFF.	N/A	 Motion detection - on/off ZONED LIGHTS Each sensor only controls its corresponding LED output respectively. Detect motion, lights ON. Detect no motion, lights OFF.	N/A
 BLUE Hand - on/off JOINED LIGHTS Wave hand over any 1 of 4 sensors, all 4 LED outputs turn ON/OFF at the same time.	N/A	N/A	N/A	N/A	N/A
 PURPLE Door open/close - on/off JOINED LIGHTS Any 1 of 4 doors open, all 4 LED outputs turn ON. All 4 doors closed, all 4 LED outputs turn OFF.	N/A	N/A	N/A	N/A	N/A
 CYAN	N/A	N/A	 Motion detection - on/off JOINED LIGHTS Any 1 of 4 sensors detect motion, all 4 LED outputs turn ON. All 4 sensors detect no motion, all 4 LED outputs turn OFF.	N/A	 Door open/close - on/off JOINED LIGHTS Any 1 of 4 switches pressed, all 4 LED outputs turn ON. All 4 switches released, all 4 LED outputs turn OFF.

PRODUCT DETAILS



Sensor LED Controller
No. CBXSNS2005



IR sensor Type A
No. SNSIRWEA
IR sensor Type B
No. SNSIRWEB



PIR sensor Type A
No. SNSPIRWDA
PIR sensor Type B
No. SNSPIRWDB



Push switch
No. SNSMCSOF



SENSOR LED CONTROLLER

- Input voltage: 12 Vdc / 24 Vdc
24 Vdc uses adapter cables
- Output power 12 Vdc: 0-48 W
- Output power 24 Vdc: 0-96 W
- Dimensions: 2.75" x 2.75" x 5/8" (70 x 70 x 16 mm)
- Sensor / switch ports: 4
- 12-24 Vdc LED ports: 4
- Compatible with Smart Control sensors / switch:
IR sensor A and B, PIR sensor A and B and push switch
- Six different color-coded control modes are selectable
with the program switch on the controller
- Ten functions between the color modes to suite project need

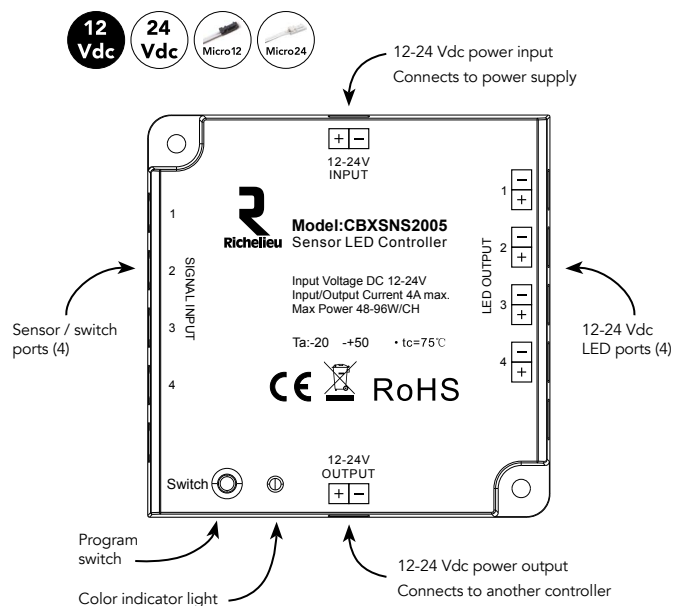
INCLUDED IN THE BOX

- (1) 12 Vdc / 24 Vdc Sensor LED controller
- (1) Power connector cable, 59 1/16" (150 cm)
- (1) 24 Vdc adapter cable, 5 7/8" (15 cm) -
24 Vdc power supply to controller power cable
- (4) 24 Vdc adapter cables, 5 7/8" (15 cm) -
24 Vdc LED to controller

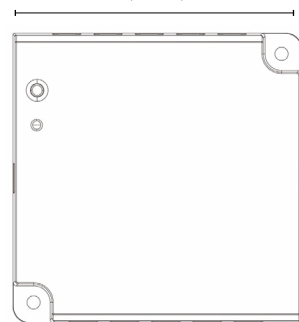
SENSOR LED CONTROLLER

No.

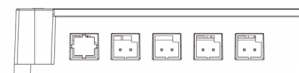
CBXSNS2005



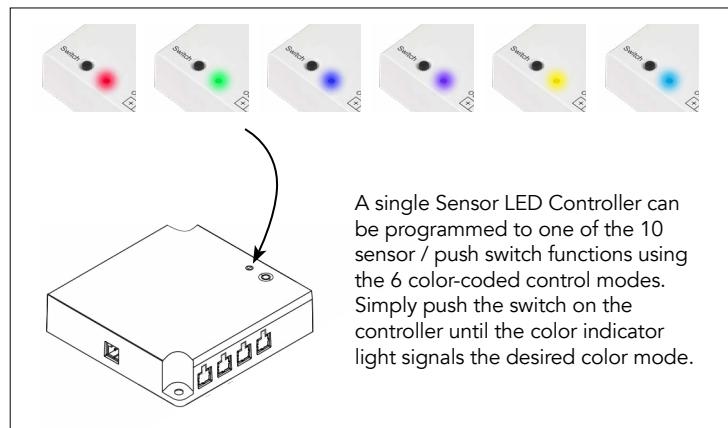
2.75"
(70 mm)



2.75"
(70 mm)



5/8"
(16 mm)



24 Vdc adapter cable -
24 Vdc power supply
to controller power cable

24 Vdc adapter cable -
24 Vdc LED to controller

IR SENSOR TYPE A & B

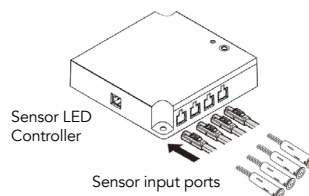
12 Vdc 24 Vdc



- Activates and dims lights by detecting motion in proximity to the sensors
- Three functions:
 1. Install inside a cabinet - open door to switch on lights, close door to switch off lights
 2. Install under cabinet - wave hand in detection range to switch on/off lights
 3. Install under cabinet - dim the lights when hand is held under the sensor for more than 1 second
- Mounting: Recess or surface-mount (adapter included)
- Detection range: 2" - 4" (5-10 cm)
- Bore hole Ø: 1/2" (12.5 mm)
- Pre-wired 39 3/8" (1 m) connection cable

ADDITIONAL REQUIRED ITEMS

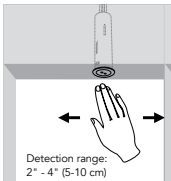
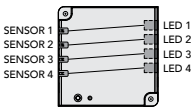
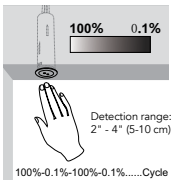
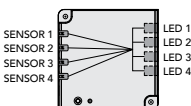
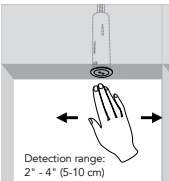
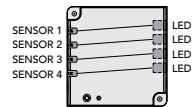
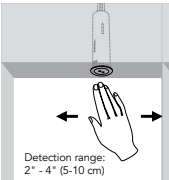
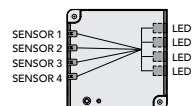
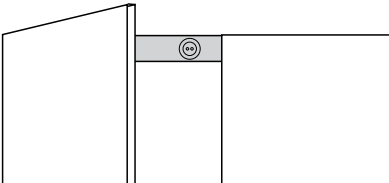
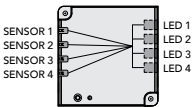
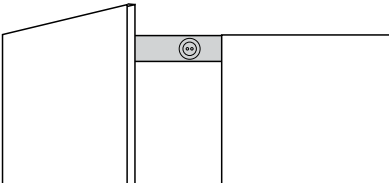
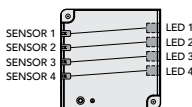
- Sensor LED controller, No. CBXSNS2005
- Power supply, see page 6



IR SENSOR

No.	Description
SNSIRWEA	Type A
SNSIRWEB	Type B

These sensors are programmed with the Sensor LED Controller using any one of the color modes below.

OPTION 1		SENSOR: TYPE A		
HAND		Function: On / Off / Dimming		
On/off - wave hand in detection range				
	 COLOR MODE RED	Zoned lights		
Each sensor only controls its corresponding LED output respectively. Wave hand, lights ON/OFF. Hold hand, lights DIM.				
On/off/dimming - in detection range, wave hand for on/off, hold hand for dimming				
	 COLOR MODE YELLOW	Joined lights		
Wave hand over any 1 of 4 sensors, all 4 LED outputs turn ON/OFF at the same time. Hold hand, lights DIM at the same time.				
OPTION 2		SENSOR: TYPE A		
HAND		Function: On / Off		
On/off - wave hand in detection range				
	 COLOR MODE GREEN	Zoned lights		
Each sensor only controls its corresponding LED output respectively. Wave hand, lights ON/OFF.				
On/off - wave hand in detection range				
	 COLOR MODE BLUE	Joined lights		
Wave hand over any 1 of 4 sensors, all 4 LED outputs turn ON/OFF at the same time.				
OPTION 3		SENSOR: TYPE A		
DOOR OPEN / CLOSE		Function: On / Off		
On/off - cabinet door opens / closes				
				
 COLOR MODE PURPLE	Joined lights			
Any 1 of 4 doors open, all 4 LED outputs turn ON. All 4 doors closed, all 4 LED outputs turn OFF.				
OPTION 4		SENSOR: TYPE B		
DOOR OPEN / CLOSE		Function: On / Off		
On/off - cabinet door opens / closes				
				
 COLOR MODE GREEN	Zoned lights			
Each sensor only controls its corresponding LED output respectively. Door open, lights ON. Door close, lights OFF.				

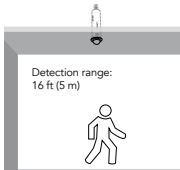
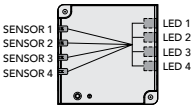
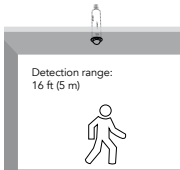
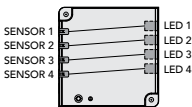
PIR SENSOR TYPE A & B

- Activates lights by detecting motion in proximity to the sensors
- Install inside an open cabinet at the base of a cabinet for toe kick lighting - when a person or object approach the sensor light(s) turn on and off when sensor detects no motion
- Mounting: Recess or surface-mount (adapter included)
- Detection range: 0 - 16 ft (0-5 m)
- Detection angle: 120°
- Bore hole Ø: 1/2" (12.5 mm)
- Pre-wired 39 3/8" (1 m) connection cable

ADDITIONAL REQUIRED ITEMS

- Sensor LED controller, No. CBXSNS2005
- Power supply, see page 6

These sensors are programmed with the Sensor LED Controller using any one of the color modes below.

OPTION 1	SENSOR: TYPE A	OPTION 2	SENSOR: TYPE B
			
MOTION DETECTION	Function: On / Off	MOTION DETECTION	Function: On / Off
<p>On/off - walk in / out of detection range</p>  <p>COLOR MODE CYAN</p> <p>Any 1 of 4 sensors detect motion, all 4 LED outputs turn ON. All 4 sensors detect no motion, all 4 LED outputs turn OFF.</p> 		<p>On/off - walk in / out of detection range</p>  <p>COLOR MODE GREEN</p> <p>Each sensor only controls its corresponding LED output respectively. Detect motion, lights ON. Detect no motion, lights OFF.</p> 	

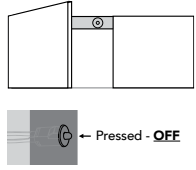
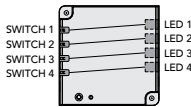
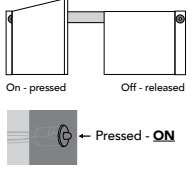
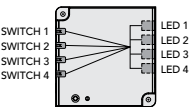
PUSH SWITCH

- Option 1: Switch pressed to turn lights OFF, released to turn lights ON
- Option 2: Switch pressed to turn lights ON, released to turn lights OFF
- Mounting: Recess or surface-mount (adapter included)
- Bore hole Ø: 1/2" (12.5 mm)
- Pre-wired 39 3/8" (1 m) connection cable

ADDITIONAL REQUIRED ITEMS

- Sensor LED controller, No. CBXSNS2005
- Power supply, see page 6

The switch is programmed with the Sensor LED Controller using any one of the color modes below.

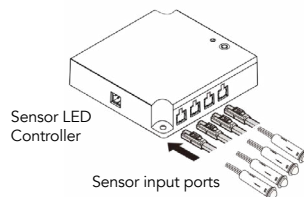
OPTION 1	OPTION 2
	
DOOR OPEN / CLOSE	DOOR OPEN / CLOSE
Function: On / Off	Function: On / Off
<p>On/off - cabinet door opens / closes</p>  <p>COLOR MODE RED</p> <p>Each sensor only controls its corresponding LED output respectively. Door open/switch released, lights ON. Door closed/switch pressed, lights OFF.</p> 	<p>On/off - cabinet door opens / closes</p>  <p>COLOR MODE CYAN</p> <p>Any 1 of 4 switches pressed, all 4 LED outputs turn ON. All 4 switches released, all 4 LED outputs turn OFF.</p> 

12 Vdc 24 Vdc



PIR SENSOR

No.	Description
SNSPIRWDA	Type A
SNSPIRWDB	Type B

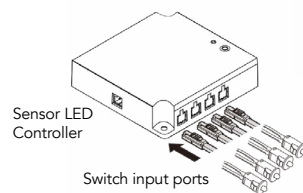


12 Vdc 24 Vdc



PUSH SWITCH

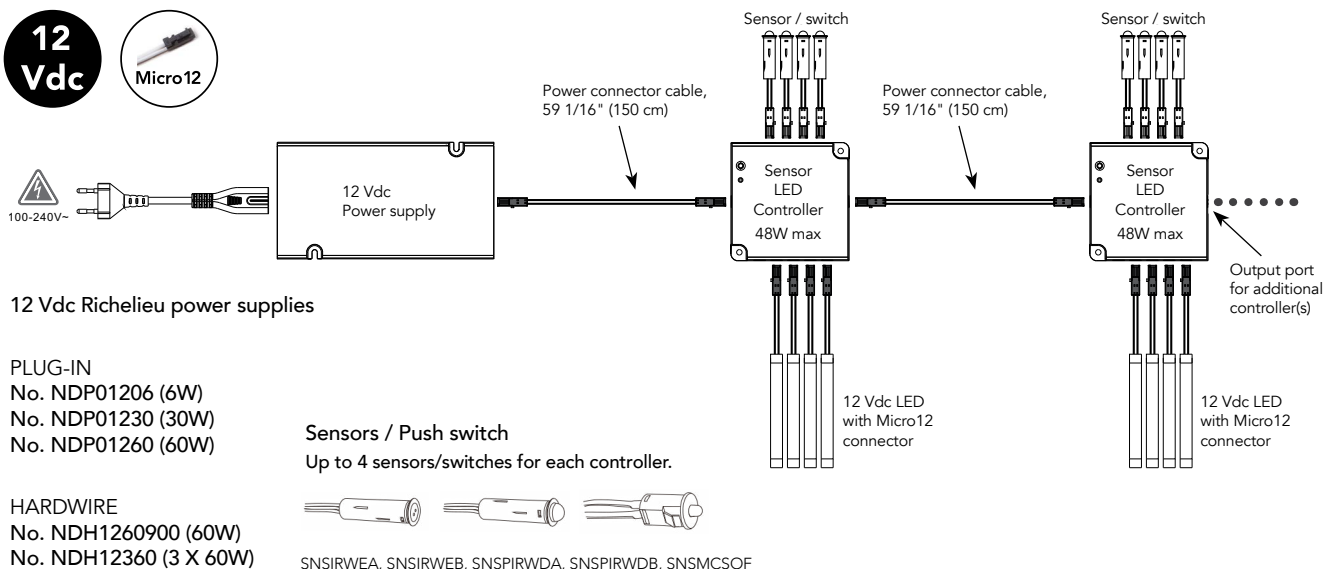
No.
SNSMCSOF



CONNECTION SETUP 12 VDC LEDS

This set up is using two Sensor LED Controllers, linked together.

Additional controllers can be added if the **total** LED wattage is within the power supply max wattage.



CONNECTION SETUP 24 VDC LEDS

This set up is using two Sensor LED Controllers, linked together.

Additional controllers can be added if the **total** LED wattage is within the power supply max wattage.

