INSTALLATION INSTRUCTION
Touch Panel Switch with Occupancy Sensor
CT-6A-R2

WAC LIGHTING
Responsible Lighting®

CAUTION :
KEEP FROM HEAT AND METAL SURFACES
- This product is designed for use indoors with general electronic devices.
- Input voltage and current must meet specifications
- Use certified wires and cables for installation
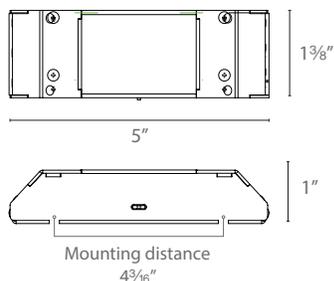- Not recommended to mount touch panel on metal surfaces

PRECAUTION :
GARDER DES SURFACES DE CHALEUR ET DES MÉTAUX
- Ce produit est conçu pour un usage en intérieur avec des appareils électroniques générales.
- Tension et le courant doit répondre aux exigences d'entrée
- Utiliser des fils et des câbles certifiés pour l'installation
- Ne montez pas l'écran tactile sur des surfaces métalliques

FEATURES:
- Intelligent motion and touch switch control of luminaires based on occupancy.
- Low-profile design compatible with a wide range of WAC Lighting low voltage LED lighting luminaires.
- Output wattage is based on the power supply (sold separately) and luminaire (sold separately) specifications. Refer to these specs for proper installation.
- Programmed with three functions:

TOUCH and SENSOR	To activate both motion sensor and touch switch.
TOUCH	Only touch switch, inactivate motion sensor.
SENSOR	Only motion sensor, inactivate touch switch.

- Built-in adjustable timer on motion sensor allows automatic shut off after the sensor covered area is vacated. Maximum time delay is 20 minutes (**20MIN**), minimum is 10 seconds (**10S**).
- Motion sensor supplied with 18ft wire and touch panel supplied with 8ft wire. May be cut to desired length. Lengthen of wire is not recommended as will decrease sensitivity.
- Two different mounting options (screw or double sided tape mounting) for all undercabinet application included. Choose appropriate mounting option for rough, smooth and curved surfaces.
- Designed for indoor undercabinet application. Recommended ambient temperature is 14° to 122° F (-10° to 50°C)
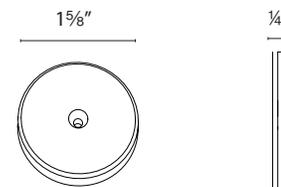
Controller
Motion Sensor
Touch Panel

1⅜"
5"
1"
Mounting distance
4³⁄₁₆"

1⅝"
1¾"
¾"
10S 20MIN
Mounting distance
1"

1⅝"
¼"
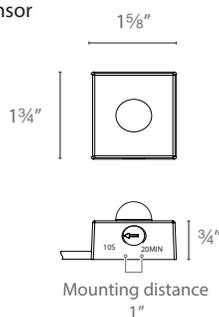
INSTALLATION:
1. **TOUCH AND SENSOR SEE (P. 3-4)**
2. **TOUCH SEE (P. 5-6)**
3. **SENSOR SEE (P. 7-8)**

SPECIFICATION :

Input:	12/24V, AC/DC
Output:	12/24V, AC/DC
Current:	6A MAX

MOTION SENSOR COVERAGE

Maximum detection angle and distance chart for Motion sensor:

Side View

8'   8'   16'

Max 4.9'

Motion
sensor   0'   120°

8'   Max 16.4'

Front View

Max 16.4'

16'

8'

Motion
sensor   0'

Lower
Sensitivity

Higher
Sensitivity

Lower
Sensitivity
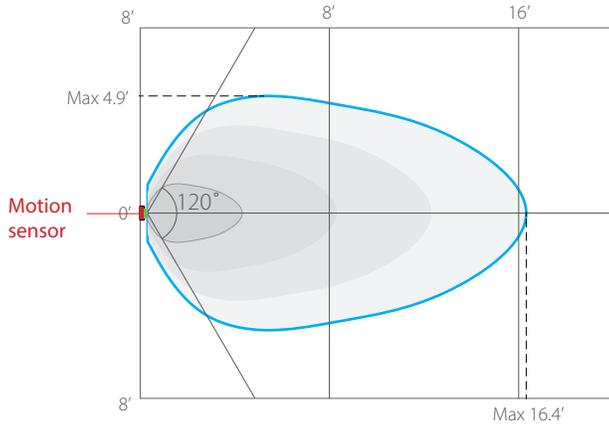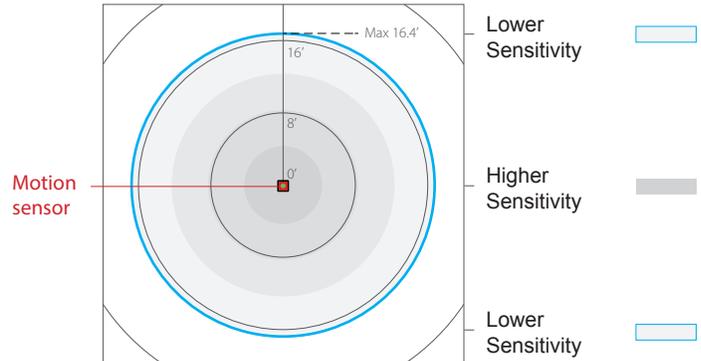
Sample Application for Function 1) TOUCH and SENSOR

- Designed for indoor undercabinet application. The recommended ambient temperature is 14 to 122 °F (-10 to 50 °C).
- Recommended to use with WAC Lighting Low Voltage LED (12V or 24V) undercabinet products.
- To achieve better result, install motion sensor with lens facing side ways and touch panel within sensor coverage range.
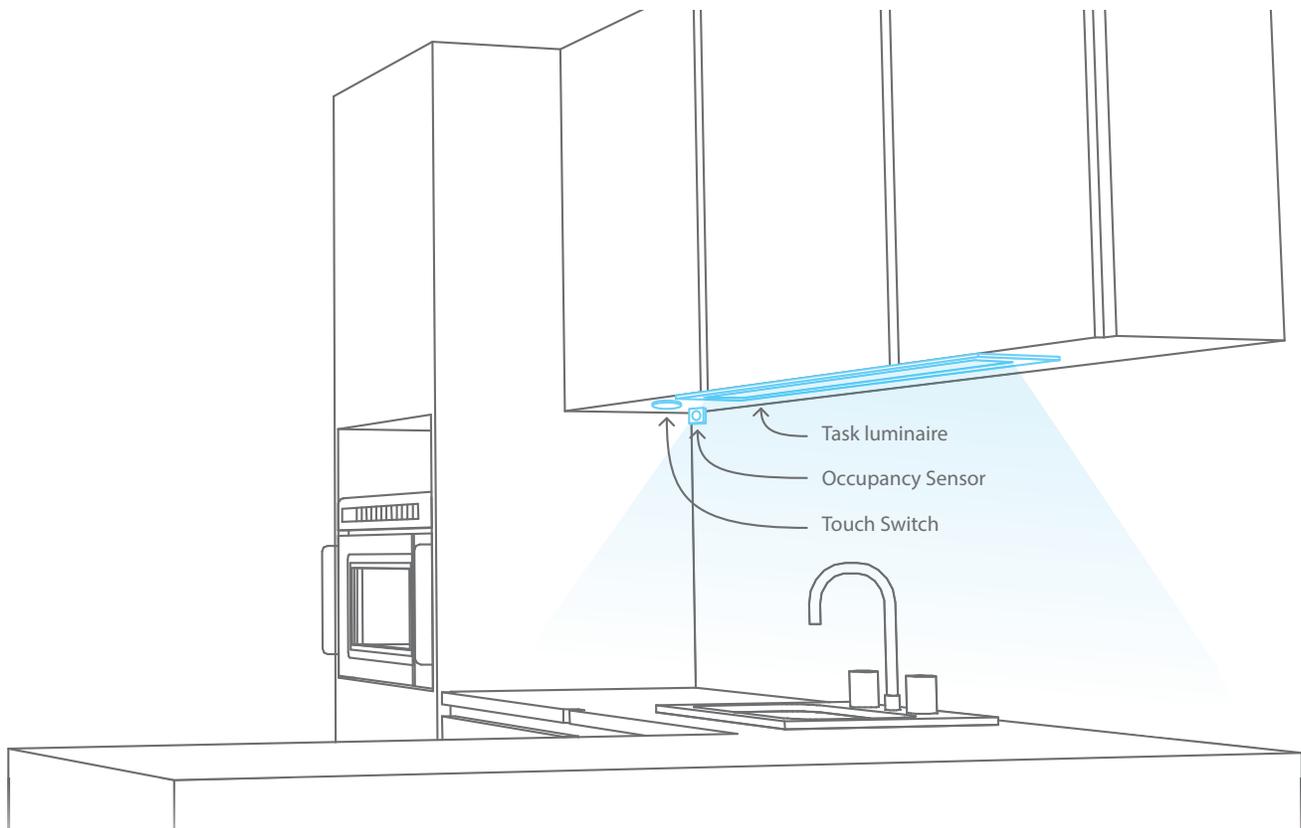
Task luminaire

Occupancy Sensor

Touch Switch
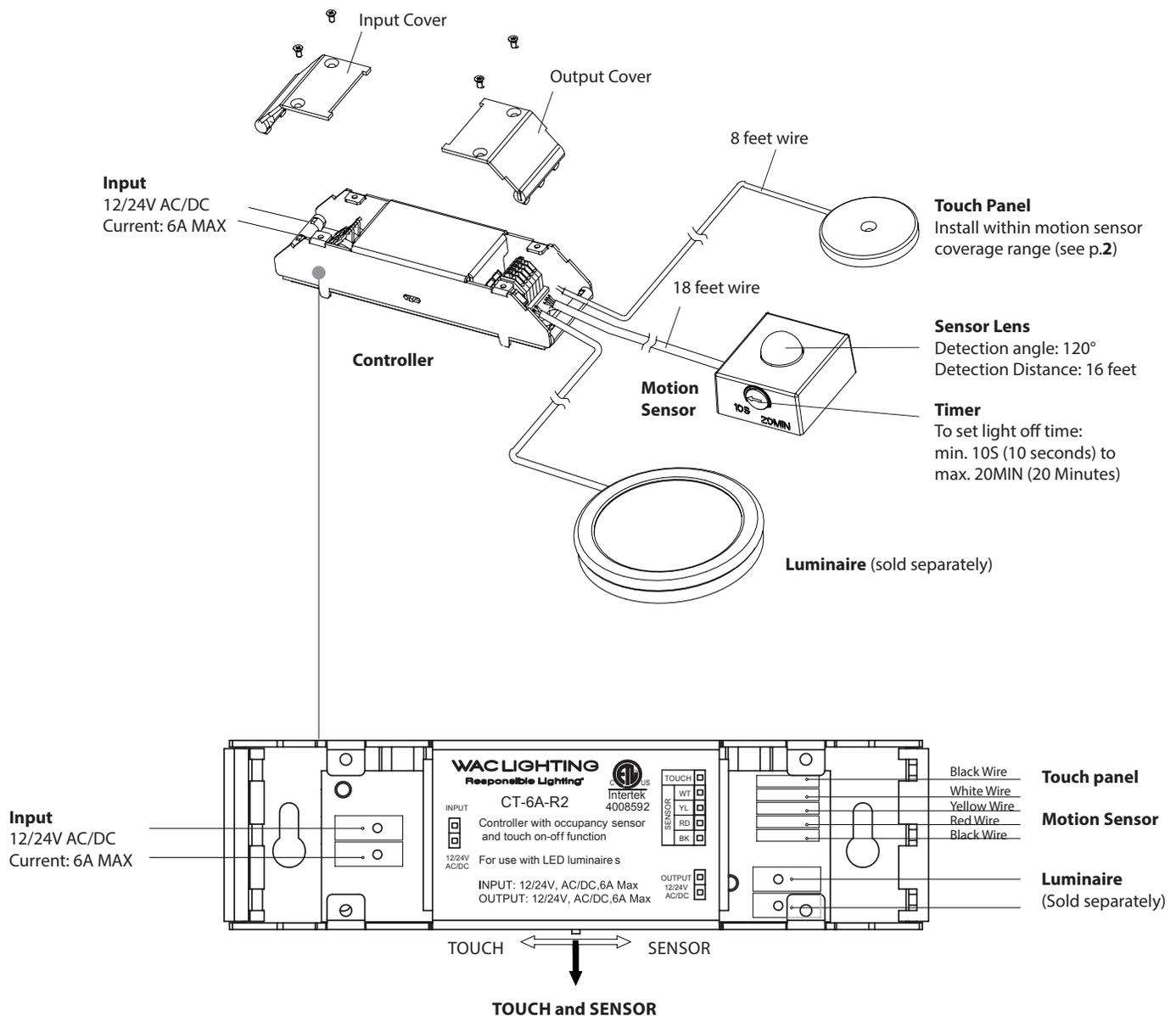
Touch Panel Switch with Occupancy Sensor

CT-6A-R2

WAC LIGHTING
Responsible Lighting®

TOUCH AND SENSOR

- Before installation, layout the application and determine the mounting locations of Motion Sensor, and the Touch Panel.
- Install within luminaires motion sensor coverage range (p.**2**) and adjust motion sensor to the direction of detection area to achieve best sensitivity (detection range: 120° and 16 feet).
  Note: Touch Panel supplied with 8 feet wire, Motion Sensor supplied with 18 feet wire. Wires may be field cuttable.

WIRING OVERVIEW (Fig.1)

Input Cover

Output Cover

8 feet wire

Input
12/24V AC/DC
Current: 6A MAX

Touch Panel
Install within motion sensor coverage range (see p.**2**)

18 feet wire

Controller

Sensor Lens
Detection angle: 120°
Detection Distance: 16 feet

Motion Sensor

Timer
To set light off time:
min. 10S (10 seconds) to
max. 20MIN (20 Minutes)

Luminaire (sold separately)

WAC LIGHTING
Responsible Lighting®

CT-6A-R2

ETL
Intertek
4008592

Controller with occupancy sensor
and touch on-off function

For use with LED luminaires

INPUT: 12/24V, AC/DC,6A Max
OUTPUT: 12/24V, AC/DC,6A Max

Input
12/24V AC/DC
Current: 6A MAX

INPUT

12/24V
AC/DC

OUTPUT
12/24V
AC/DC

TOUCH
WT
YL
RD
BK

SENSOR

Black Wire — **Touch panel**
White Wire
Yellow Wire
Red Wire — **Motion Sensor**
Black Wire

Luminaire
(Sold separately)

TOUCH ⟺ SENSOR

TOUCH and SENSOR

INSTALLATION INSTRUCTION
Touch Panel Switch with Occupancy Sensor

CT-6A-R2

WAC LIGHTING
## Responsible Lighting®

Installation

1. Make sure controller switch position to "TOUCH and SENSOR".
2. Mount the motion sensor by using screw or double sided tape (**Fig. 2**) with the lens facing the direction where the best detection range of human movement for optimal coverage. Detection angle is 120° and max distance is 16 feet (see p. 2 for sample kitchen application and coverage chart).
3. Mount the touch panel by using screws or double sided tape (**Fig. 3**) within motion sensor's coverage range.
4. Mount controller by using screws or double sided tape (**Fig. 4**). Open the input/output cover of controller by screw to connect motion sensor, touch panel, luminaires and power supply (see **Fig.1** for wiring instruction).
5. Screw back the input and output covers of the controller. The input/output covers are designed to press and secure the wires in position.

Motion Sensor Screw Mounting: (**Fig. 2**)
Use screws to mount the installation board.
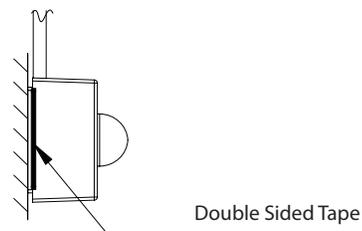Fix the sensor on the board with clips.
Suitable for wood cabinets with rough finishes or curved surfaces

Installation Board
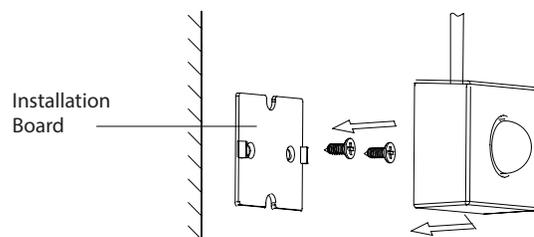
Motion Sensor Tape Mounting:
Use double sided tape to mount the sensor.
Suitable for cabinets with smooth finishes.

Double Sided Tape
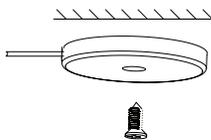
Touch Panel Screw Mounting: (**Fig. 3**)
Use screw to mount the touch panel.
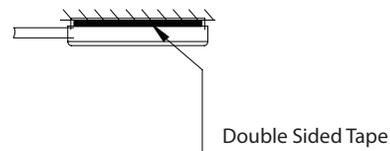Suitable for wood cabinets with rough finishes or curved surfaces.
Caution: Do not install on metal surfaces.

Touch Panel Tape Mounting:
Use double sided tape to mount the touch panel.
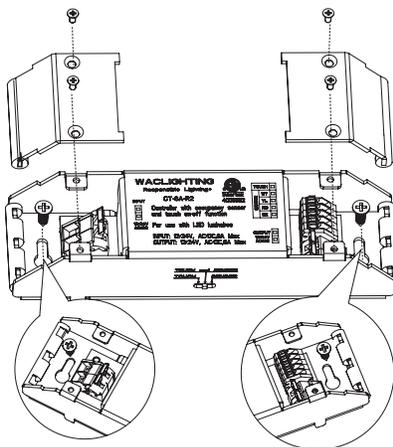Suitable for cabinets with smooth finishes.

Double Sided Tape

Controller Screw Mounting: (**Fig. 4**)
Open the input and output covers of controller.
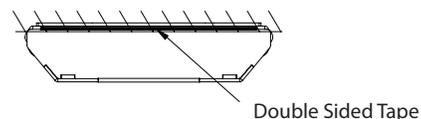Use screws to mount by waist shaped holes.
Suitable for wood cabinets with rough finishes or curved surfaces.

Controller Tape Mounting:
Use double sided tape to mount the controller.
Suitable for cabinets with smooth finishes.

Double Sided Tape

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. DECEMBER, 2014   4
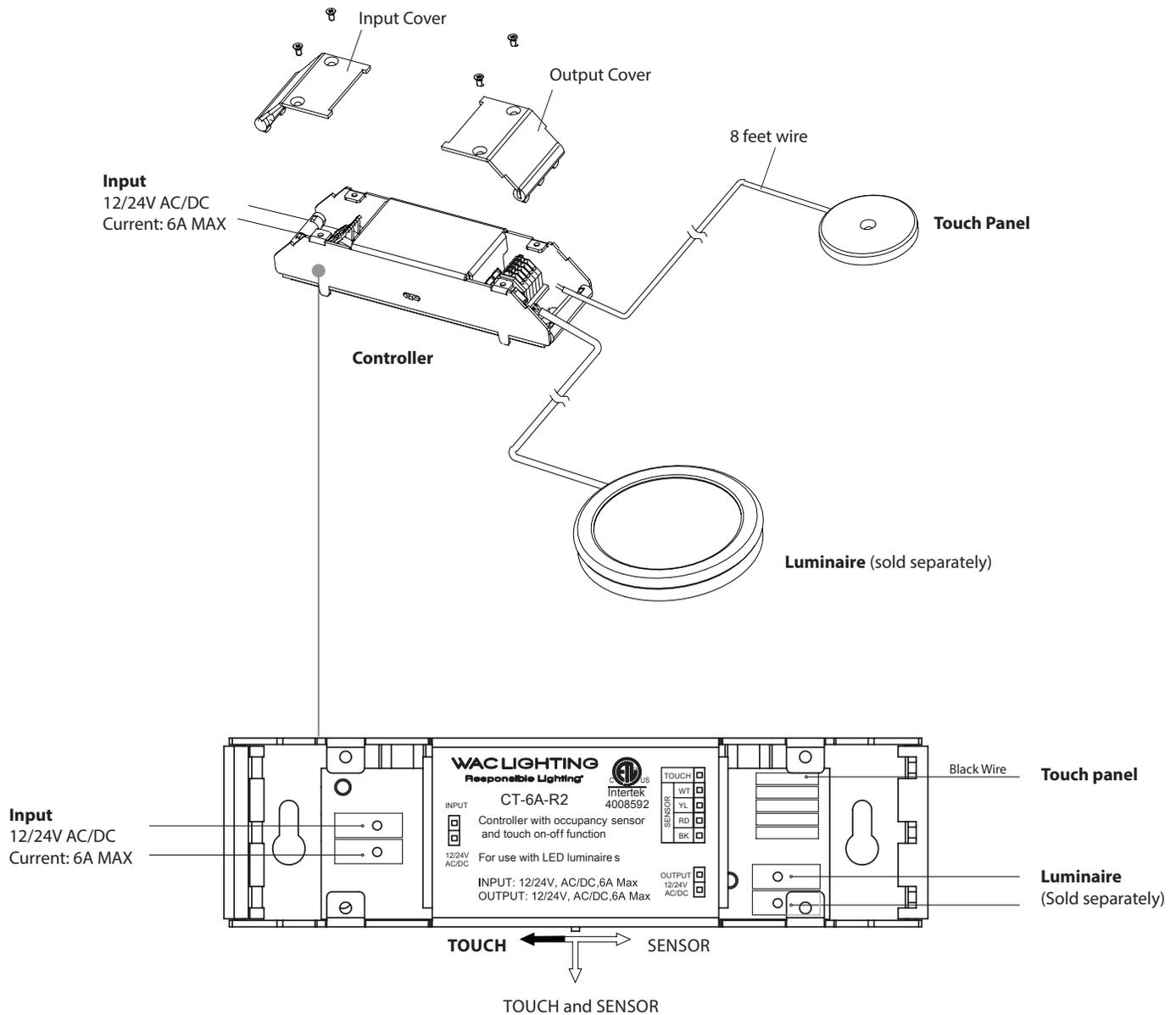
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WAC LIGHTING
Responsible Lighting®

TOUCH

- Before installation, layout the application and determine the mounting locations of touch panel and luminaires.
  Note: Touch panel supplied with 8 feet wire. Wires may be field cuttable.

WIRING OVERVIEW (Fig.5)

Input Cover

Output Cover

8 feet wire

Input
12/24V AC/DC
Current: 6A MAX

Touch Panel

Controller

Luminaire (sold separately)

WAC LIGHTING
Responsible Lighting®

CT-6A-R2

Intertek
4008592

Controller with occupancy sensor
and touch on-off function

For use with LED luminaires

INPUT: 12/24V, AC/DC,6A Max
OUTPUT: 12/24V, AC/DC,6A Max

INPUT

12/24V
AC/DC

TOUCH
WT
YL
RD
BK

SENSOR

OUTPUT
12/24V
AC/DC

Input
12/24V AC/DC
Current: 6A MAX

Black Wire **Touch panel**

Luminaire
(Sold separately)

TOUCH ← → SENSOR

TOUCH and SENSOR

INSTALLATION INSTRUCTION
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Installation
1. Make sure controller switch position to "TOUCH".
2. Mount the touch panel by using screw or double sided tape (**Fig. 6**).
3. Mount controller by using screws or double sided tape (**Fig. 7**). Open the input and output covers of controller to connect, the touch panel, luminaires and power supply to the controller (see **Fig.5** for wiring instruction).
4. Screw back the input and output covers of the controller. The input/output covers designed to press and secure the wires position.
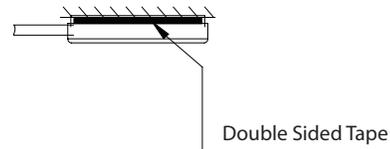
Touch Panel Screw Mounting: (**Fig. 6**)
Use screw to mount the touch panel.
Suitable for wood cabinets with rough finishes or curved surfaces.
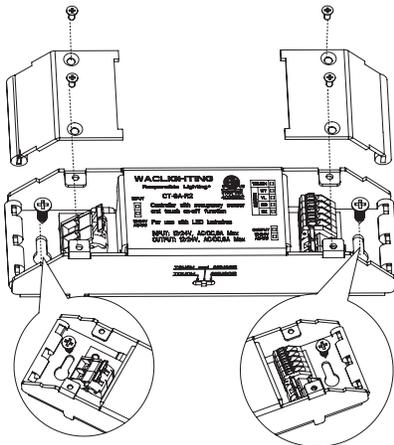Caution: Do not install on metal surfaces.
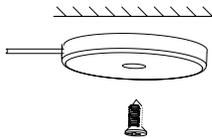
Touch Panel Tape Mounting:
Use double sided tape to mount the touch panel.
Suitable for cabinets with smooth finishes.

Double Sided Tape
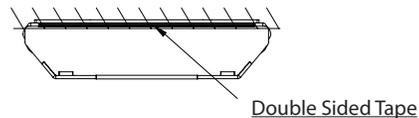
Controller Screw Mounting: (**Fig. 7**)
Open the input and output cover of controller.
Use screws to mount by waist shaped holes.
Suitable for wood cabinets with rough finishes or curved surfaces.

Controller Tape Mounting:
Use double sided tape to mount the controller.
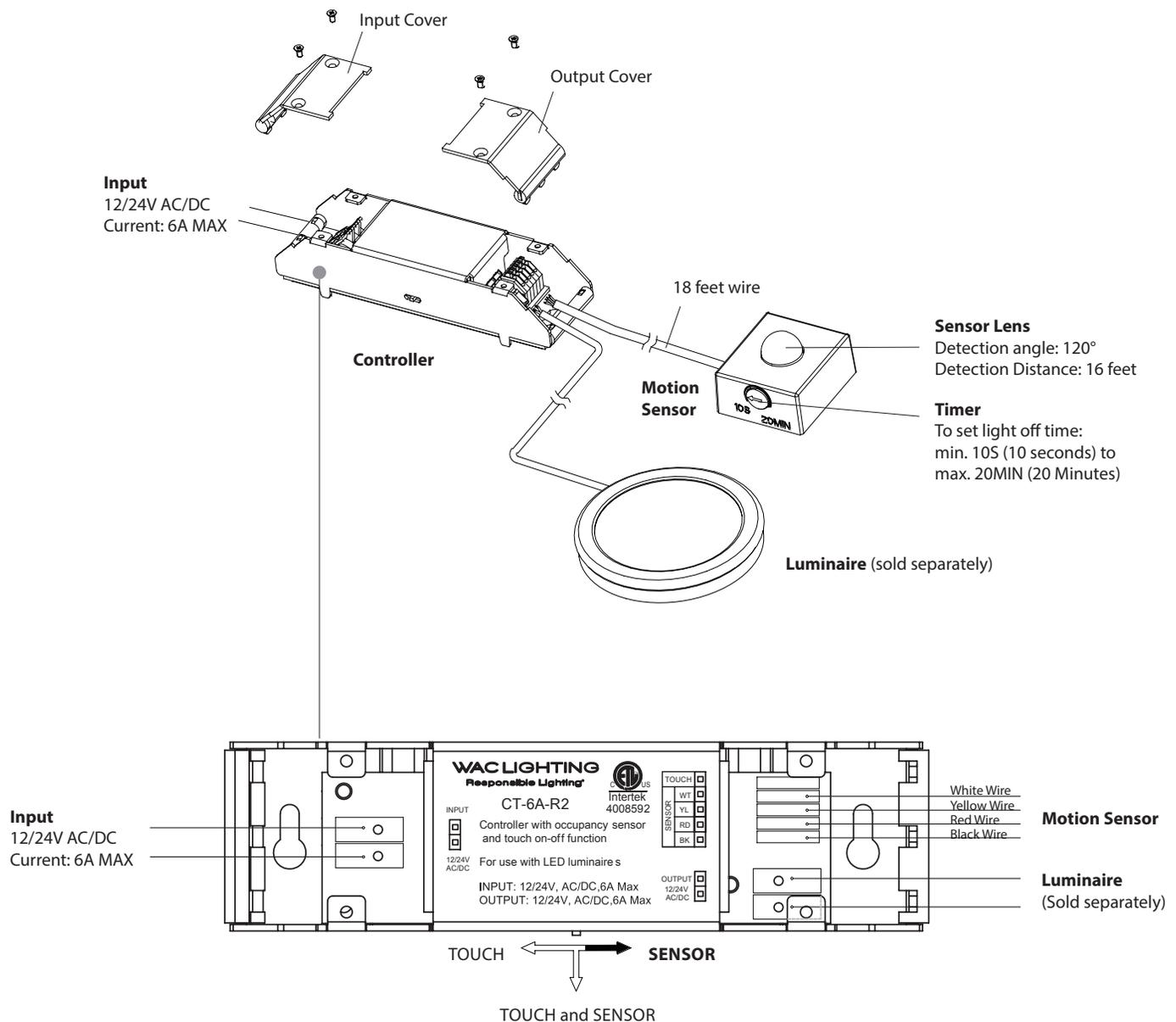Suitable for cabinets with smooth finishes.

Double Sided Tape

SENSOR

- Before installation, layout the application and determine the mounting location of motion sensor and luminaires.
  Adjust motion sensor to the direction of detection area to achieve best sensitivity (detection range: 120° and 16 feet).
  Note: Motion Sensor supplied with 18 feet wire. Wires may be field cuttable.

WIRING OVERVIEW (Fig.8)

Input Cover

Output Cover

Input
12/24V AC/DC
Current: 6A MAX

18 feet wire

Sensor Lens
Detection angle: 120°
Detection Distance: 16 feet

Controller

Motion Sensor

Timer
To set light off time:
min. 10S (10 seconds) to
max. 20MIN (20 Minutes)

Luminaire (sold separately)

WAC LIGHTING
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CT-6A-R2

ETL
Intertek
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Controller with occupancy sensor
and touch on-off function

INPUT

12/24V
AC/DC

For use with LED luminaires

INPUT: 12/24V, AC/DC,6A Max
OUTPUT: 12/24V, AC/DC,6A Max

TOUCH
WT
YL
RD
BK
SENSOR

OUTPUT
12/24V
AC/DC

Input
12/24V AC/DC
Current: 6A MAX

White Wire
Yellow Wire
Red Wire
Black Wire

Motion Sensor

Luminaire
(Sold separately)

TOUCH ⇐ ⇒ **SENSOR**

TOUCH and SENSOR

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WAC LIGHTING
Responsible Lighting®

Installation
1. Make sure controller switch position to "SENSOR".
2. Mount the motion sensor by using screws or double sided tape (**Fig. 9**) with the lens facing the direction where the best detection range of human movement for optimal coverage. Detection angle is 120° and max distance is 16 feet (see p. 2 for sample kitchen application and coverage chart).
3. Mount controller by using screw or double sided tape (**Fig. 10**). Open the input and output cover of controller to connect motion sensor, luminaires and power supply to the controller (see **Fig.8** for wiring instruction).
4. Close the input and output cover of controller by screw. The input/output covers are designed to press and secure the wires in position.
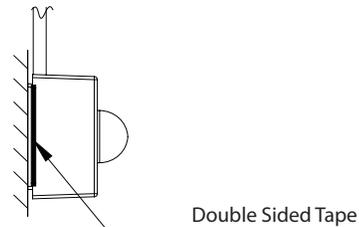
Motion Sensor Screw Mounting: (**Fig. 9**)
Use screws to mount the installation board.
Fix the sensor on the board with clips.
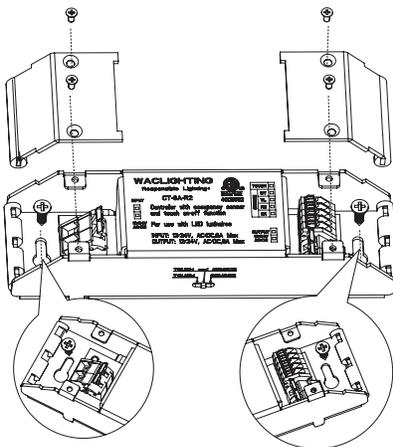Suitable for wood cabinets with rough finishes or curved surfaces

Motion Sensor Tape Mounting:
Use double sided tape to mount the sensor.
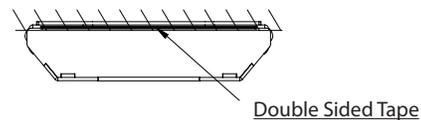Suitable for cabinets with smooth finishes.

Installation Board
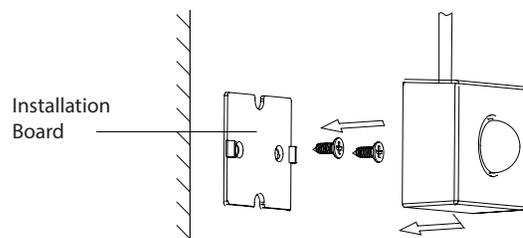
Double Sided Tape

Controller Screw Mounting: (**Fig. 10**)
Open the input and output cover of controller.
Use screws to mount by waist shaped holes.
Suitable for wood cabinets with rough finishes or curved surfaces.

Controller Tape Mounting:
Use double sided tape to mount the controller.
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Double Sided Tape

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