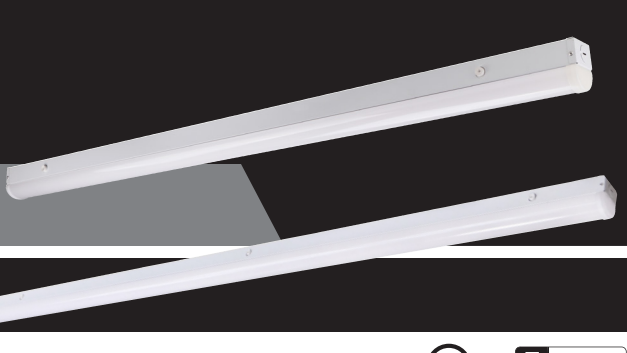
ETLIN-DANIELS

INSTALLATION MANUAL FOR STL64 & STL68 LED STRIP FIXTURE



SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

⚠ WARNING

CAN ICES-005 (B) NMB-005 (B)

c UL us LISTED

5 YEAR LIMITED WARRANTY

PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION.

- To reduce risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts / abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
- For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

⚠ WARNING

- Do not use the electric generator to test the LED Fixture.
- Turn off electrical power at the fuse or circuit breaker box before wiring the fixture to the power supply.
- Proper earth grounding is required to ensure safety.
- Turn off the power when you perform any maintenance.
- Verify that the supply voltage is correct by comparing it with the luminaire label information.
- All wiring connections should be capped with UL approved wire connectors.

⚠ CAUTION

- Avoid direct eye exposure to the light source while it is on.
- Please wear gloves to avoid injury before installation.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Risk of burn. Disconnect power and allow fixture to cool before changing bulb or handing fixture.
- If any smoke or spark of the wire happened, please turn off the power immediately and notify relevant personnel.

INSTALLATION INSTRUCTION

WIRING DIAGRAM AND INSTRUCTION

2 dimming functions are available in this LED Fixture.

1. Constant current can be achieved by 0/1 - 10VDC Dimming
2. DC Motion Sensor Accessory - ST6-SENMC-12V

Connect supply wires to wires in fixture wiring box with proper size wire nuts or push wires into "push-in" connector. Connect white to white, black to black, and green or bare copper wire. The ground wire at the service junction box may need to be secured to a ground screw.

L: Black / N:White / ⏚: Green / Yellow

DIM + / DIM -

(As for the wire colour of DIM + and DIM -, please check the fixture label)

BRAND	MODEL
LUTRON	NTSTV-DV
LEVITON	DS710-10Z / IP710
LEGRAND	RH4FBL3PW
This fixture is 0/1-10V dimming, the following dimmers are recommended.	

Please choose the appropriate dimming way according to your needs.You can also choose not to use this function. Round fixtureshade or square fixtureshade will not affect the installation method or function expansion of the product.

SURFACE MOUNTING INSTALLATION

1. According to the different lengths of the product, drill holes at the corresponding positions and drive the rubber plugs from the accessory kit into the holes (Figure 1).
2. Attach the disc from the accessory kit to the fixture (this step can be omitted if the light fixture can completely cover the junction box on the wall) (figure 2).
3. Press the button on both sides of the fixture by hand to open the fixture (Figure 3).
4. Lead the wire into the fixture and install the fixture chassis by using the screws in the accessory kit (figure 4).
5. Product Connection: Maximum 20 fixtures at 25W / 32W / 40W; 12 Fixtures at 70W; 11 Fixtures at 80W; 10 Fixtures at 90W.

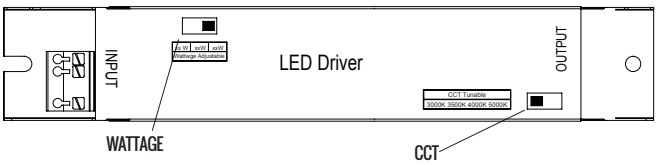
ADJUSTABLE WATTAGE & CCT

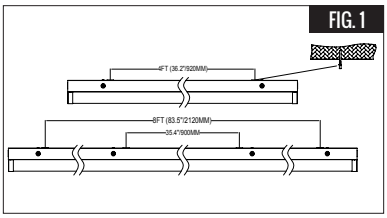
Press the button on both sides of the fixture by hand to open the fixture,
Wattage can be adjusted via a dip switch.

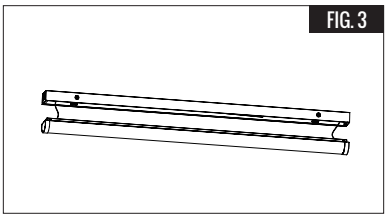
The end users may adjust the color temperature and lumen output respectively using two DIP switch buttons integrated into the driver. The DIP switch is accommodated with four colour temperature options (3000K / 3500K / 4000K / 5000K) and three wattage options (STL64 - 25W / 32W / 40W, STL68 - 70W / 80W / 90W), allowing for the desired colour temperature and lumen output combination.

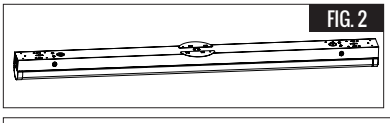
Factory Settings: STL64 - 5000K, 40W / STL68 - 5000K,90W

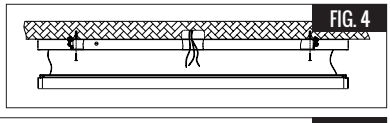
1. Dip switches are located on the driver. (See below)
2. Select a wattage and colour temperature by sliding the switch left or right respectively to the desired value.

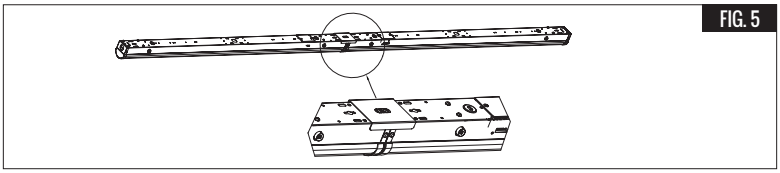








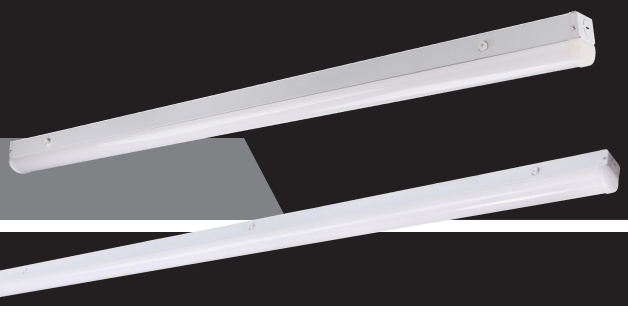




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SUSPENDED MOUNTING

This fixture can be mounted using V-Hooks and Chain - accessories not supplied in box.

1. Attach V-Hooks to fixture (FIG 7).
2. Attach chain (properly anchored to ceiling or wall) to v-hooks (FIG 8).
3. Press the button on both sides of the fixture by hand to open the fixture.
4. Connect the wires according to safety requirements, and then install the fixture body back to the chassis (Figure 8)

FIG. 6

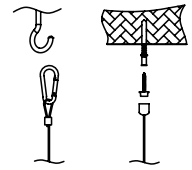


FIG. 7

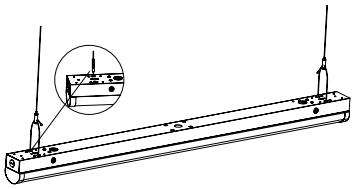
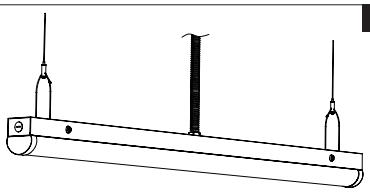


FIG. 8



LINKING FIXTURE

1. Use the screws in the accessory kit to lock the bracket onto one fixture (figure 9).
2. Align the other fixture to the bracket and lock the screws (Figure 10).

FIG. 9

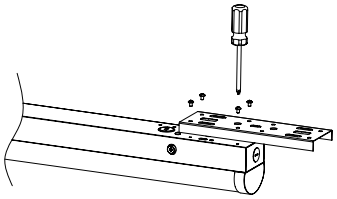
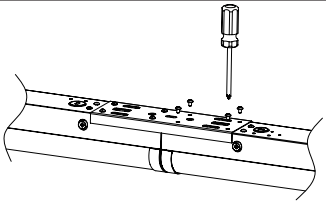


FIG. 10



DC MOTION SENSOR

1. Press the button on both sides of the fixture by hand to open the fixture.
2. Assemble the DC sensor to the corresponding position (Figure 11).
3. Connect the wires according to the wiring instructions,adjust sensing mode as per demand, and then assemble the disassembled fixture back. (Figure 12).

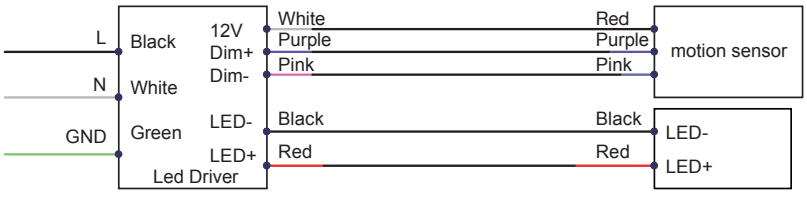


FIG. 11

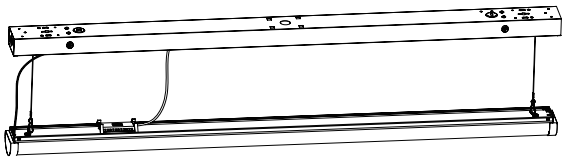


FIG. 12



WIRE GUARD

After installing the product is completed, install the wire guard on the fixture with screw. (Figure 15/16)

FIG. 15

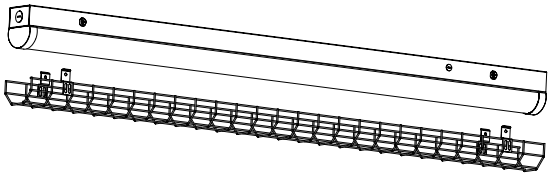
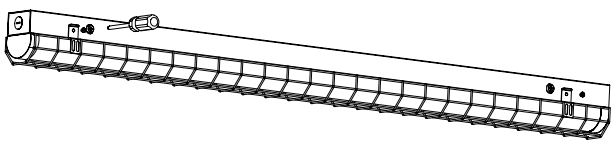


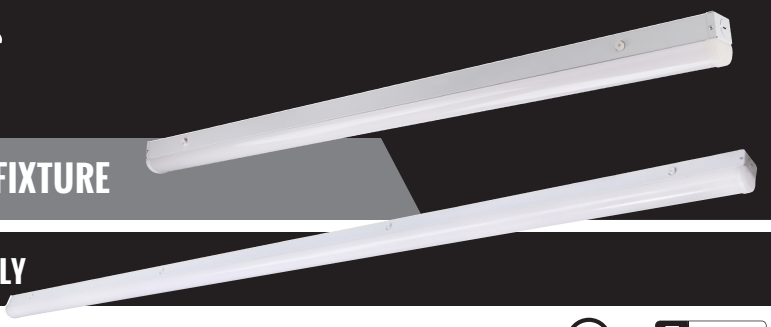
FIG. 16



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INSTALLATION MANUAL FOR STL64 & STL68 LED STRIP FIXTURE



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MICROWAVE SENSOR INSTALLATION GUIDE

CAN ICES-005 (B) NMB-005 (B)

c UL us LISTED

5 YEAR LIMITED WARRANTY

INSTALLATION PRECAUTIONS.

1. Microwave sensor can be installed in any fixture.
2. The detected surface cannot be shielded by metal objects.
3. Make sure the microwave module is completely exposed outside.
4. The detection surface of the sensor module shall be installed facing the detection area.
5. Should be kept away from the driver to avoid interference generation and fixture flashing.
6. Wiring must be strictly in accordance with the wiring diagram to avoid short circuit.

USER NOTES.

1.Microwave can penetrate walls or glass thinner than 20mm.
2. The driver voltage shall be stable and float within 10%.
3. Detection area will be affected by speed of motion, mounting height and movement volume.
4. Conduct test on sunny days without the fixtureshade which will affect the tested lux value.

APPLICATION ENVIRONMENT.

1. Suitable for indoor installation.
2. Shall not be installed in the place with all four metal shelters and small space (such as galvanized-iron roof).
3. Shall note be mounted installation, so as to avoid false trigger caused by the fixture itself shaking.
4. Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.

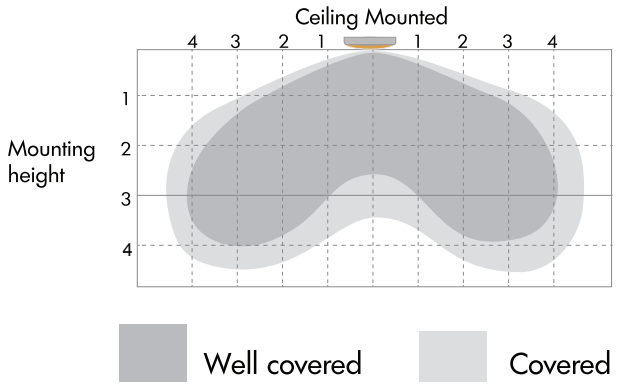


TECHNICAL INFROMATION	
Operating Voltage	DC:10.5-15V
Operating Current	<30mA
Stand-by Power	0.5W
Operating Current	<30mA
Control Method	0-10V / 0 -10V Dimming
Microwave Frequency	5.8GHz±75MHz
Microwave Power	<0.3mW
Detection Area	DIP Switch : 50%/100% Remote control : 25%/50%/75%/100%
Hold Time	DIP Switch :10s/1min/5min10min Remote control : 5s/30s/1min/3min/5min10min/20min/30min
Daylight Threshold	DIP Switch :10Lux/30Lux/50Lux/Disable Remote control : 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
Mounting Height	Max. 4m (ceiling mounted)
Detection Area	Diameter 10m*4m(Max)
Motion Detection	0.5~1m/s
Detection Angle	150°(Wall mounted) 360°(ceiling mounted)
Operating Temperature	-20°C~+60°C
IP Rating	IP20
Warranty	5 Years
Function Setting	DIP Switch
Connection	Red 12V+ Black DIM- Yellow DIM+

NOTES:
1. The result is based on 1.65M/60kg medium-size man walking towards with speed 0.8m/s in vacant room: The sensor hanging at 3M height.
2. It may have different performance if the test delivered by different people, with different speed, at different height or in different conditions.

DETECTION RANGE

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



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INSTALLATION MANUAL FOR STL64 & STL68 LED STRIP FIXTURE

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DIP Switch Setting

1 2 3 4 5 6 7 8 9

Switch Up
Switch Down

Stand-by dimming level

● ●	10%
● ○	20%
○ ●	30%
○ ○	50%

The definition of low output in the standby period.

Stand-by period

● ●	1min
● ○	30min
○ ●	60min
○ ○	+∞

The period of light keeping low output before it's completely switched off. When it's preset as"∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

Daylight Threshold

● ●	Disable
● ○	50lux
○ ●	30lux
○ ○	10lux

Definition of the ambient brightness: only when the ambient brightness is lower than the preset specific lux amount, the sensor will work: when it's preset as "disable",the sensor works everytime it detects motion regardless the ambient brightness.

Hold-Time

● ●	10s
● ○	1min
○ ●	5min
○ ○	10min

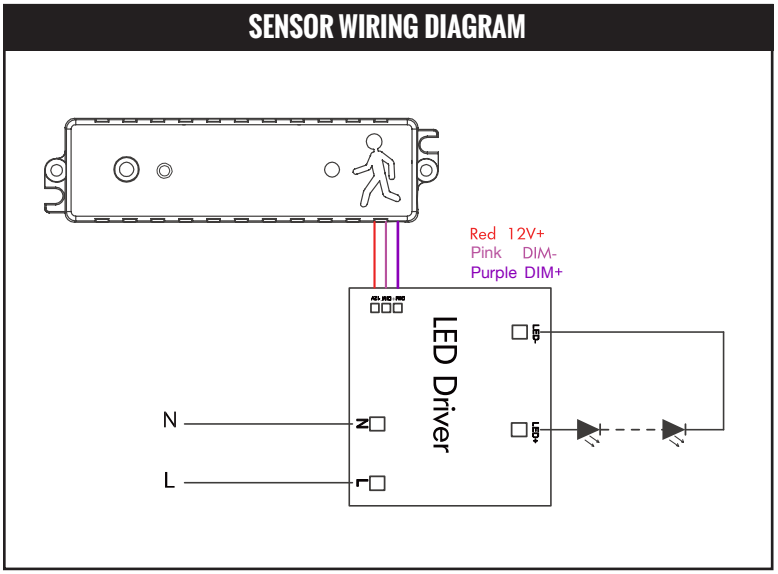
The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

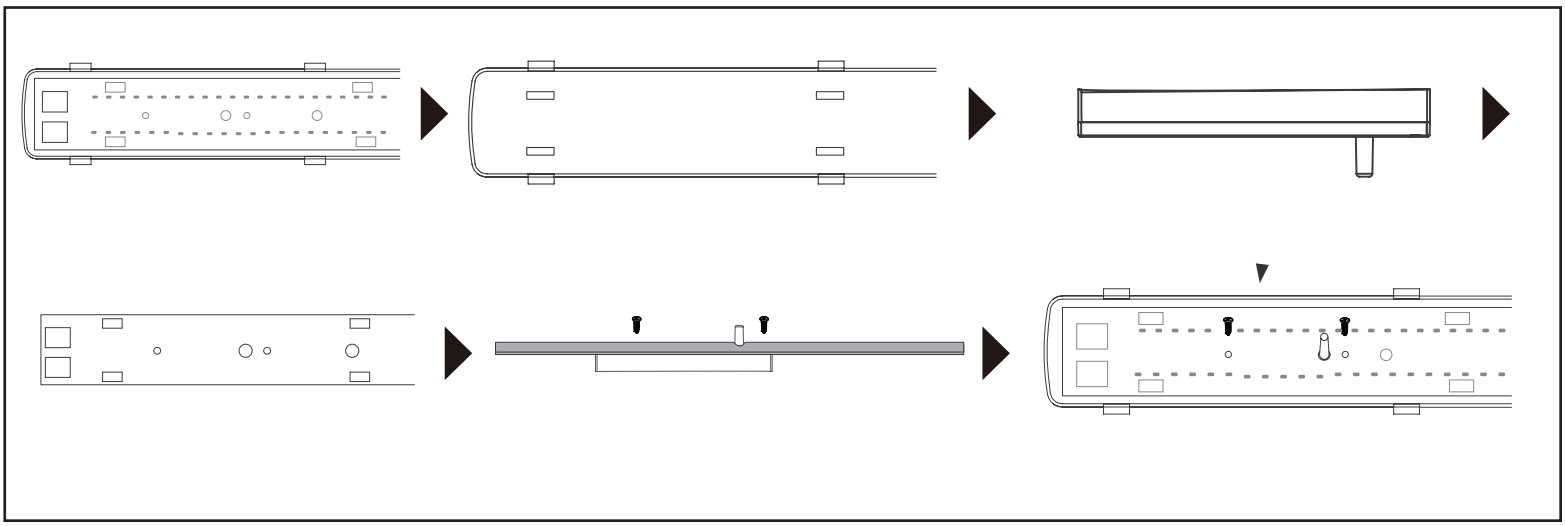
●	100%
○	50%

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitvity.

SENSOR WIRING DIAGRAM



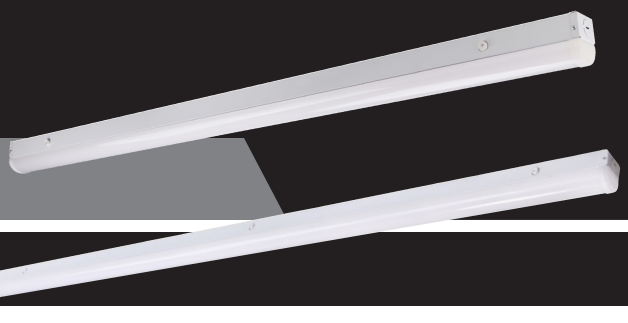
SENSOR INSTALLATION



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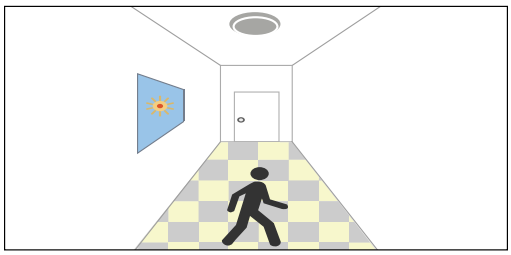
INSTALLATION MANUAL FOR STL64 & STL68 LED STRIP FIXTURE



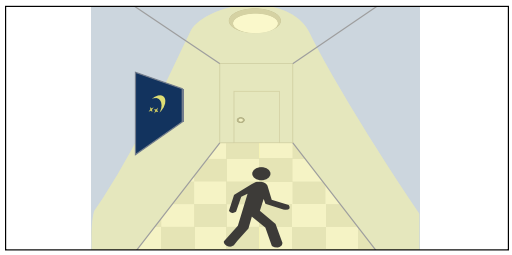
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AUTOMATICALLY ON / OFF FUNCTION:

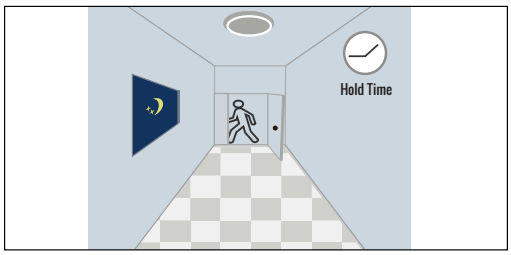
Light on when detecting movement and off after people leave at night. Applications: Corridor, Staircase.



With sufficient Daylight, even when motion is detected, the fixture remains off.



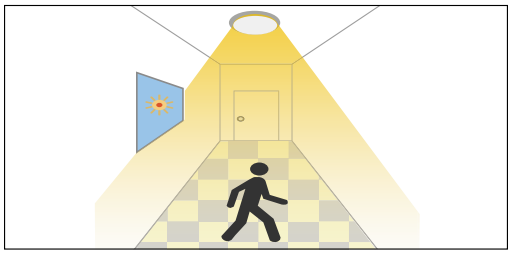
With insufficient Daylight, when motion is detected, the fixture will turn on.



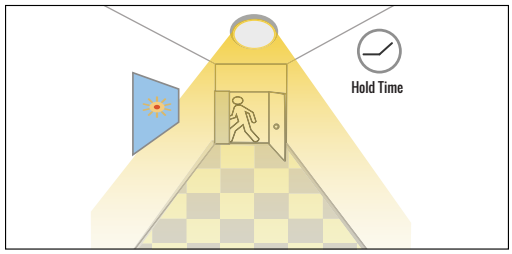
After the space is vacated, and the preset hold time has elapsed, the fixture will turn off.

NO DAYLIGHT FUNCTION

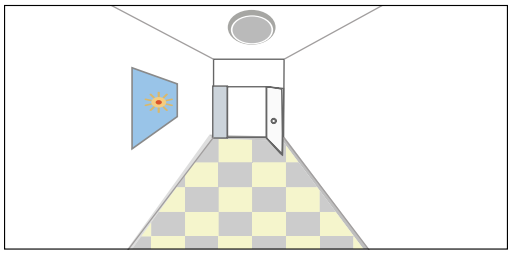
The daylight threshold is set to “Disable”.
Light on when detect movement, After people leave, Light off after stand-by period. Applications: Dim places such as Basement Parking, Underpass.



When motion is detected, the sensor will turn the fixture to 100% brightness.

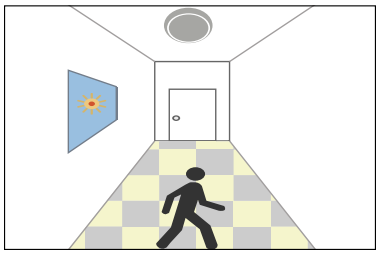


After the space is vacated, the fixture will remain at 100% brightness for the hold time

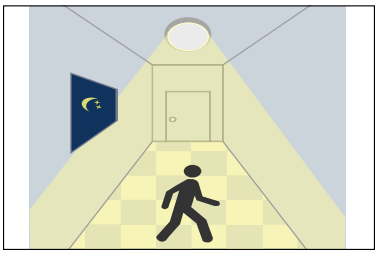


After the last detection and the preset hold time has elapsed, the fixture turns off.

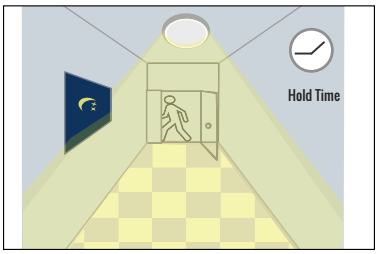
FUNCTION DEMO - DIMMABLE CONTROL/CORRIDOR FUNCTION



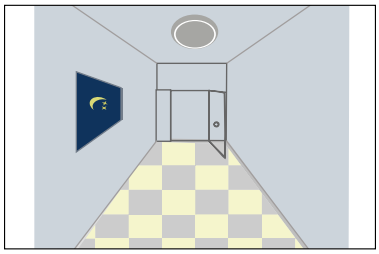
With sufficient Daylight. Even when motion is detected, the fixture remains off.



With insufficient Daylight, when motion is detected, the fixture turns on.



After last detection, the light will be dimmed down to the stand-by dimming level (10%,20%,30% or 50%) after holdtime.

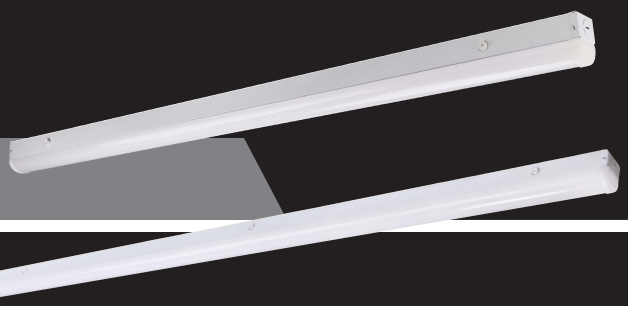


After the standby period, the fixture will go off.

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REMOTE CONTROL APPLICATIONS STL6-RCS2 (Arrival Mid September)

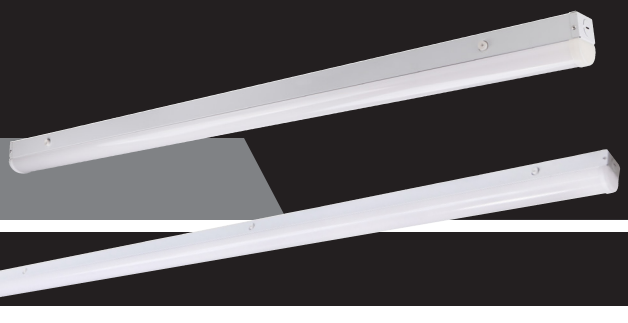


BUTTON NAME	DESCRIPTION
ON / OFF	Turn the Sensor On or Off.
Auto	Press Auto - enter into sensor mode and performs last parameter. Press Auto and Auto Mode will show on LCD screen display. Means command received successfully.
Reset	Press this button to enter into factory settings. Default Programming (Detection Area 100% / Holdtime 5S / Daylight Disabled / Standby Dimming 10% / Standby Period 0S.)
Scenes	Press this button to choose from 4 optional saved scenes parameters. Parameters can be saved into 4 optional scenes and then can be directly activated from each scene saved.
Start	Press this button before you try to memorize a new program into the remote. The S icon will appear on the LCD screen. And will disappear if no action is taken within 10S. Will need to press Start again.
Memory	Press Memory after programming completed. Blinking S will become a solid M. Means program has been saved successfully.
Apply	Press this button to apply the saved parameters to the target sensors. Every press will make the whole screen blink gently.
Mounting Height	Press this button to adjust sensitivity from the senor according to the real installation height. This makes the sensors work more precisely in the application.
Send	Press this button to send the last parameters to the target sensors. Instead of START - MEMORY - APPLY.
Detection Range	Also known as "sensitivity". 100% means the highest sensitivity and longest distance. Press this button - the icon on the screen display will blink. Then use + / - buttons to choose the required parameters.
Daylight Sensor	The preset lux level to compare with ambient brightness, when motion gets detected. Press the button - the icon will blink on the LCD display. Then use + / - buttons to choose the desired daylight levels. Max level is 400 lux / - means disabled / LEN means learning ambient brightness.
Standby Dimming	After holdtime, the fixture will dim from optional standby dimming levels. Press the button - the icon will blink on the LCD display. Then use + / - to choose the required standby dimming level.
Hold Time	The period that the fixture will remain illuminated 100% after no motion is detected. Press the button - the icon will blink on the LCD screen. Then use + / - to choose the required hold time.
	The main function buttons to adjust all factors to required levels.
Standby Period	The period after hold time, during which the fixture keeps standby dimming level. Press the button - the icon will blink on the LCD display. Then use + / - to choose the required standby period. The minimum is 0S / the max is infinite.
CCT	Does Not Apply to STL6 Strip. Only supports sensors with CCT tunable feature.
Power	Supports manual change of dimming output in detection mode. Press the button - icon will blink on LCD display. Then use + / - buttons to choose required brightness level. *** In ON / OFF mode, output dimming range is 10%-100%. In SENSOR mode, output dimming range is 60%-100%.
Reserved	This button is reserved for future sensor technology options.
Daylight Harvesting	Make parameters according to daylight harvesting conditions. Then press this button to activate this function. DH-ON will show on LCD Display. This is a premium function of the sensor. When this function is activated, the light output from the fixture will be adjusted by the sensor according to the ambient light level. For example, when the fixture is in a sunnier environment, the sensor will lower the light output of the fixture. When it gets darker around, the sensor will turn up the light level of the fixture.
Test mode	Supports checking if sensors work correctly, with a short 2S hold time. Press the button to perfrom testing function. Stays on only 2S and then off. Till motion again detected and will on again.

Head Office - 1850 Wilson Ave. · Toronto, ON · M9M 1A1 · **Tel:** 416.741.7336 · **Fax:** 416.741.9104
Toll Free: in Canada. 1.800.661.9610 · in USA. 1.888.762.5384 (SOCKETS4U)
www.etlin-daniels.com · For sales/service questions - sales@etlin.com

ETLIN-DANIELS

INSTALLATION MANUAL FOR STL64 & STL68 LED STRIP FIXTURE



SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

REMOTE CONTROL APPLICATIONS STL6-RCS



BUTTON NAME	DESCRIPTION
ON / OFF	Turn ON or OFF the sensor.
MW / PIR	Exchange from Microwave detection to PIR detection, for future use.
Reset	Press it to start detection programming; before pressing any other buttons, the screen shows default programming (Detection Area 100%, Holdtime 5S, Daylight Disable, Standby Dimming 10%, Standby Period 0S)
Start	Press it before you try to memorize program into the remote; After pressing it, S on the screen will blink and keeping blinking while making the program.
Memory	Press it after programming, the blinking S will become a solid M, that means the program has been well memorized.
Apply	Press it to deliver the preset program to the specific sensors; every press will make the whole screen blink gently.
Detection Area	Also known as "sensitivity", 100% means the highest sensitivity and longest distance. Press it, specific icon on the screen will blink and press the + - buttons to adjust.
Hold Time	The period that light will stay illuminated 100% after no motion's detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
Daylight Threshold	The preset lux level to compare with ambient brightness when motion gets detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
Standby Period	The period after holdtime, during which the light keeps standby dimming level; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
Standby Dimming Level	After holdtime, the light will dim from 100% to optional standby dimming levels; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	The main functional buttons to adjust the factors to wanted level.
Power	Supports to manually change dimming output in detection mode; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
Test mode	Supports to check if the sensor works correctly with a short 2S holdtime; Press it and the holdtime will change to 2S, and it can't be memorized.

MANUALLY DIMMING IN CONVENTION MODE.

1. Press the On/Off Button to turn the fixture on.
2. Press + - buttons to adjust, every press will change the number on the screen
   For some sensors that are not fully supporting HD05R:
   - Press ON/OFF button to turn ON the light.
   - Please keep pressing - button until it shows 10% on the screen, keep the button again then it will start to dim down.
   - Please keep pressing + button until it shows 100% on the screen, keep the button again then it will start to dim up.

MANUALLY DIMMING IN DETECTION MODE.

1. Press the On/Off Button to turn the fixture on.
2. Press SCENE button to enter into the detection mode.
3. Press POWER% button, the PW icon will blink on the screen.
4. Press + - buttons to adjust dimming output
   For some sensors that are not fully supporting HD05R:
   - Press ON/OFF button to turn ON the light.
   - Press SCENE button to enter into the detection mode.
   - Press POWER% button, the PW icon will blink on the screen.
   - Please keep pressing - button until it shows 10% on the screen, keep the button again then it will start to dim down.
   - Please keep pressing + button until it shows 100% on the screen, keep the button again then it will start to dim up.

PROGRAMMING THE DETECTION MODE.

1. Press the On/Off Button to turn the fixture on.
2. Press SCENE button to enter into the detection mode.
3. Press START button, the S icon will blink on the screen.
4. While S is blinking, Press the functional buttons of Detection Area, Holdtime, Standby Dimming, Standby Period and Daylight Threshold, press + - buttons to adjust.
5. Press MEMORY button to save the program in the remote.
6. Press APPLY button to deliver the program to the sensors.
   - Press ON/OFF button to turn ON the light.
   - Press SCENE button to enter into the detection mode.
   - Press APPLY button to deliver the save program.

RECALL THE PROGRAM.

1. Press the On/Off Button to turn the fixture on.
2. Press SCENE button to enter into the detection mode.
3. Press APPLY button, the save program information will show.

TEST MODE.

1. Press the On/Off Button to turn the fixture on.
2. Press SCENE button to enter into the detection mode.
3. Press TEST(2S) button, the holdtime will change to only 2S; after 2S, sensor will turn OFF the light.

*Please note this test mode won't be saved in the remote.

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