ETLIN-DANIELS

INSTALLATION MANUAL FOR HBL52SP2 HIGH BAY SERIES WITH MICROWAVE SENSOR BASE



SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY

⚠ WARNING

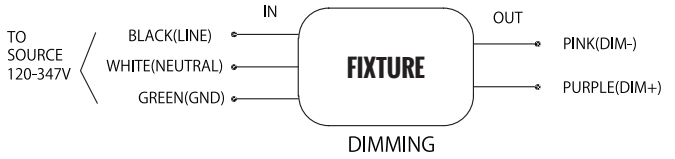
PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION.

- To prevent personal injury or product damage only licensed electricians/personnel should install fixture.
- To avoid electric shock or component damage disconnect power before attempting installation or servicing.
- This product must be installed in accordance with the National Electric Code (NEC)/Canadian Electrical Code (CEC) and all applicable Federal, State/Provincial and Local Electric Codes and Safety Standards.
- Disconnect fixture and allow cooling prior to servicing.
- Any alteration or modification of this product is expressly forbidden as it may cause product malfunction, property damage, personal injury.
- To prevent product malfunction and/or electrical shock this product must be properly grounded.
- All parts must be used as indicated in the instructions. Do not substitute any parts, leave parts out, or use any parts that are worn, damaged or broken.
- Selected fixture voltage must match supply line voltage.
- Please keep away from the corrosive substance, and keep the fixture dry and clean.
- Working temperature: -4°F ~ 104°F, storage temperature: -22°F ~ 140°F.

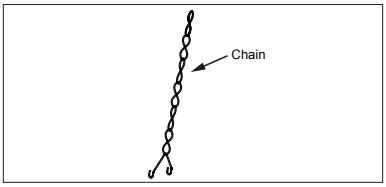
UL CERTIFIED SAFETY US*CA SÛRETÉ US*CA E474174

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

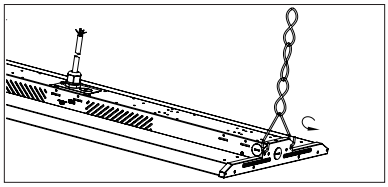
WIRING DIAGRAM



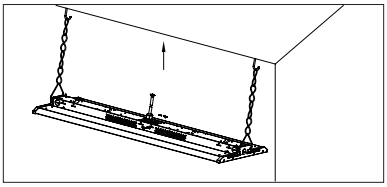
CHAIN INSTALLATION



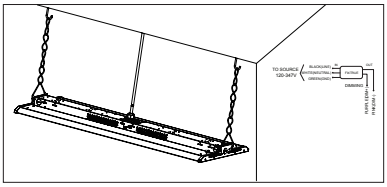
1. Hook the chain as below pic.



2. Insert the hook into the slotted holes, as shown below.

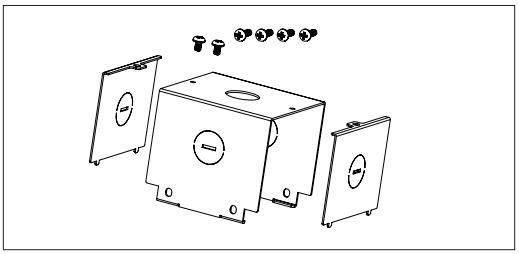


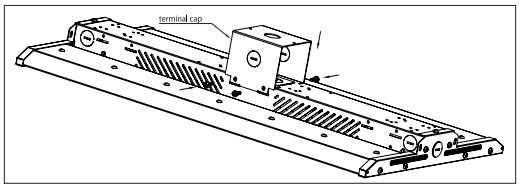
3. Hook up the chain on the ceiling anchor.



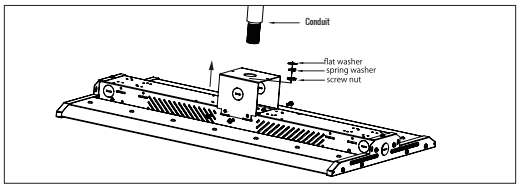
4. Turn off power, and make wiring connections with terminal cap (see wiring instruction above).

CONDUIT INSTALLATION

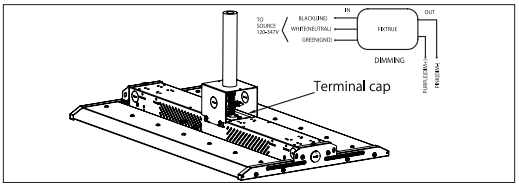




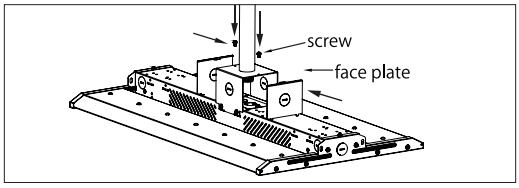
1. Attach the junction box on the fixture with the provided hardware.



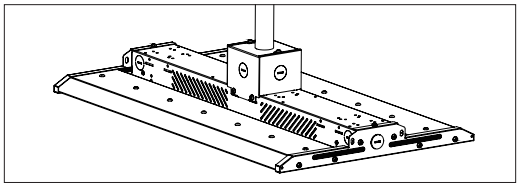
2. Attach the high bay on the conduit with provided hardware.



3. Turn off power, and make wiring connections with terminal cap (see wiring instruction above).



4. Attach both face plates to the Junction box with provided hardware.

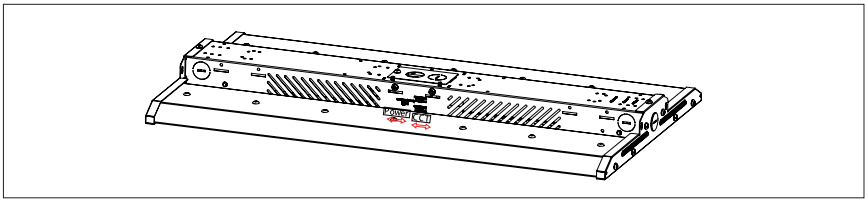


5. Installation completed.

ADJUST POWER AND COLOR TEMPERATURE INSTALLATION

1. Flip the color temperature switch to the desired color temperature. Flip the power switch to the desired wattage, as shown in the figure.

DEFAULT SETTINGS:
HBL52SP2-M110WCOMB-WH10F : 110W / 5000K
HBL52SP2-M220WCOMB-WH10F : 220W / 5000K



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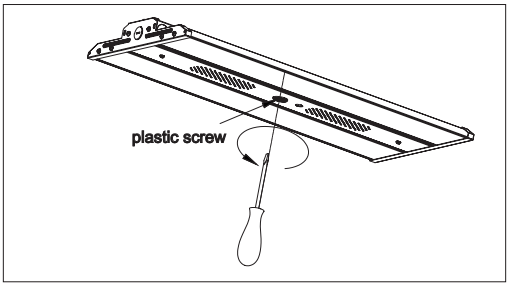
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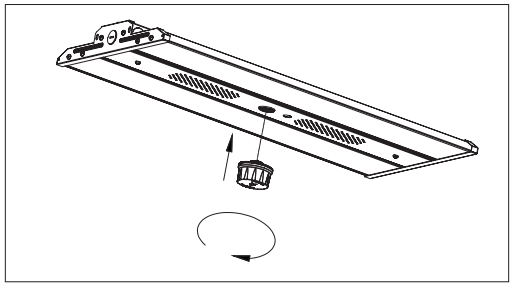


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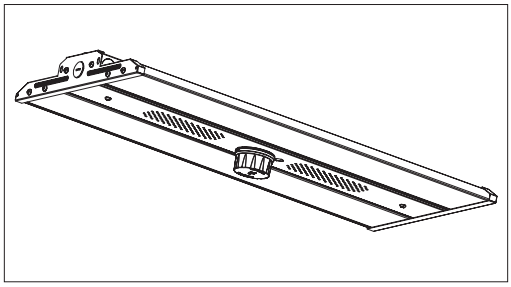
SENSOR INSTALLATION (SENSOR BASE PRE-INSTALLED)



1. Unscrew the plug screw cover.

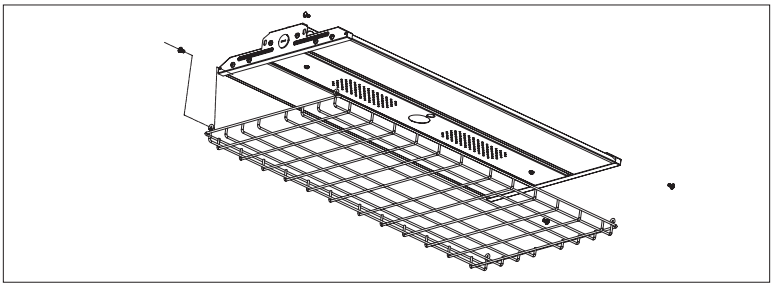


2. Hand twist the sensor into the sensor base.

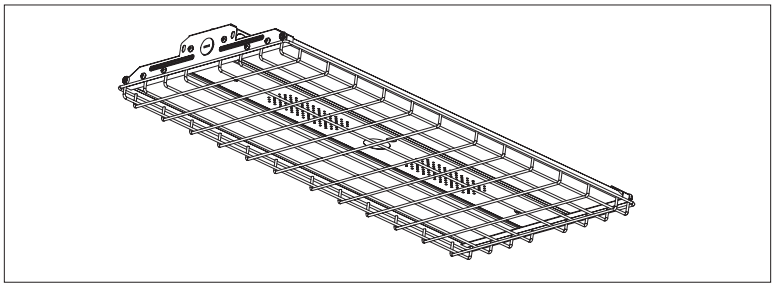


2. Sensor installation is completed, then check whether the sensor works properly - see sensor instructions.

WIRE GUARD INSTALLATION



1. Step One: Put the Wire Guard on the corresponding screw hole of the fixture.



2. Step Two: Tighten the wire guard with a screwdriver, the installation is completed.

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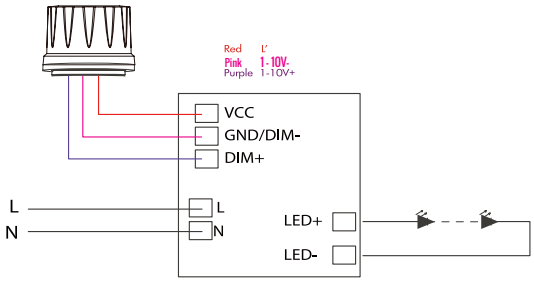
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SENSOR SPECIFICATION - SENSOR BASE ALREADY PRE-WIRED

SENSOR WIRING DIAGRAM

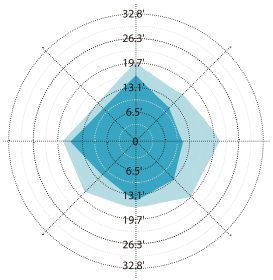


same wiring for all the different sensor parts

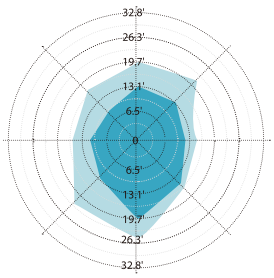
BUTTON NAME	DESCRIPTION
Voltage	DC Input: 10.5 - 15V Current > 50mA
Current	<30mA
HF Frequency	5.8GHz ± 75MHz
HF Power	0.3mW
Detection Angle	30 - 150° Without Glass Cover
Mounting Height	Max 15m /49ft
Detection Distance	Radius 3 - 6m
Working Temp	-40°C ~ 70°C
Warranty	5 Years
Programming	Fully compatible with HAISEN remote control HD05R
Hold Time	5s± 1s / 30s ± 3s / 1 min ± 4s / 3 min ± 5s / 5 min ± 10s / 10min ± 20s / 20 min ± 25s / 30 min ± 30s
Daylight	2Lux (0-8) / 10Lux (6-18) / 30Lux (20-45) / 50 Lux (30-70) / 80Lux (60-100) / 120Lux (90-155) / Disable
Standby Period	0s / 10s ± 2s / 30s ± 3s / 1min ± 4s / 5 min ± 10s / 10 min ± 20s / 30 min± 30s
Standby Dimming	10% (0.95-1.2V) / 20% (1.8-2.2V) /30%(2.8 - 3.2V) / 50%(4.8-5.2V)
Wiring	RED: VCC; PINK: GND; PURPLE: DIM+
Control	ON / OFF 0 -10V Dimmable
IP Grade	IP65

DETECTION COVERAGE

Detection Angle (Without Glass Cover)	<30 - 150°
Mounting Height	6M / 19.7 Ft.
Normal Movement	1M / sec 13.28 Ft./sec
Detection Area	100% 75%

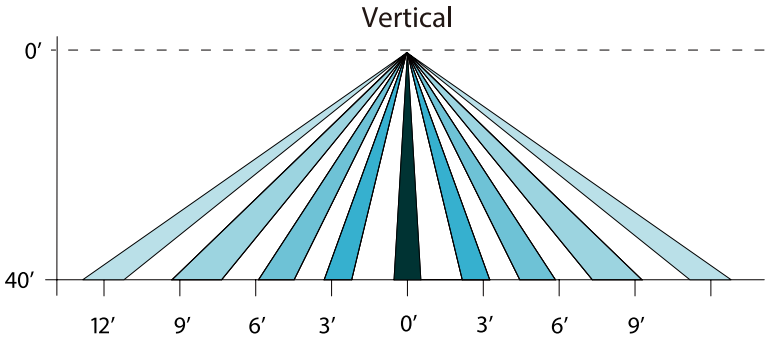


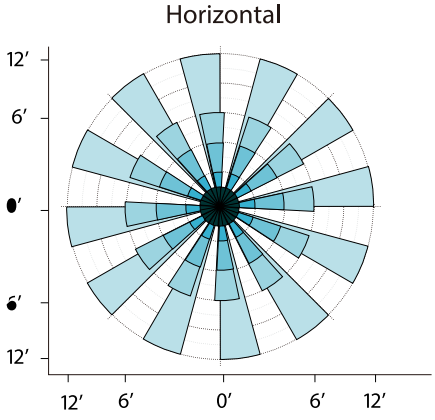
Detection Angle (Without Glass Cover)	<30 - 150°
Mounting Height	15M / 49 Ft.
Normal Movement	1M / sec 13.28 Ft./sec
Detection Area	100% 75%



Detection Angle (Without Glass Cover)	<30 - 150°
Mounting Height	6M / 19.7 Ft.
Normal Movement	0.5-1M / sec 1.64-3.28 Ft./sec

CEILING MOUNTED





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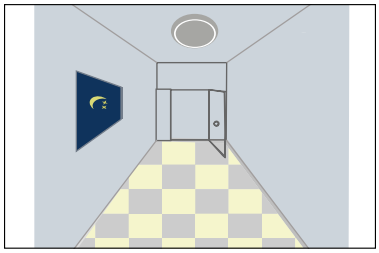
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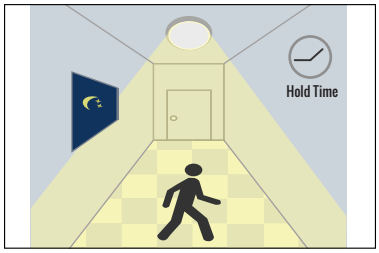


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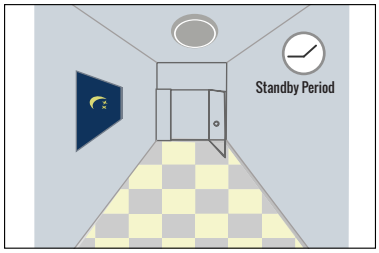
PERFORMANCE



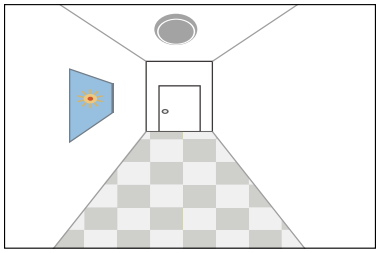
With insufficient ambient brightness, the sensor will turns ON the Light automatically even if there's no motion.



The sensor will turn ON the Light to 100% when it detects motion, and keep for the hold time period.



The sensor will dim the light to standby dimming level after the hold time period, if theres no motion is detected



The sensors will turn OFF the light automatically if theres sufficient birghtness ambient, even when motion is detected, the fixture remains off.

IMPORTANT INFORMATION

1. We reserve the right to necessarily modify any incorrect words or pictures or technical parameters.
2. Do Not rework the sensro without permission or authorization, otherwise the contract clauses guaranteed will be voided immediately.

INSTALLATION OVERVIEW

1. Turn the power off at the circuit breaker before installing the sensor.
2. Do Not allow bare wires to show; Make sure all connections are secure; Check all the gaskets for water tight fit.
3. Assemble any necessary mounting accessories.
4. Do Not have any cover above the microwave module.
5. Do keep the sensor away from the driver to avoide possible interference.

APPLICATIONS

1. Do Not mount it outdoor, in case it will be triggered by tree swinging.
2. Do Not have it at small room or places surrounded with metal material.
3. Do Not have it around big industrial machine to avoid it getting triggered by vibration.

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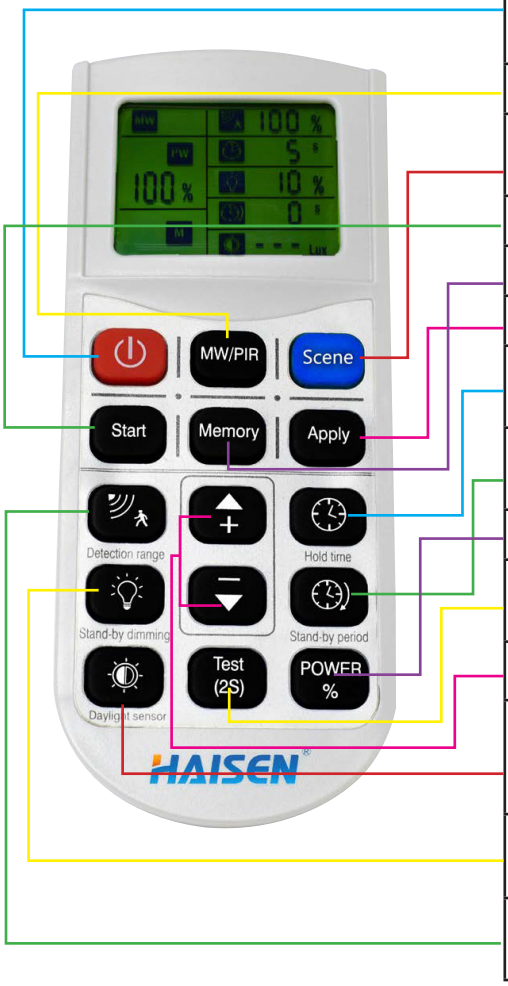
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REMOTE CONTROL APPLICATIONS



BUTTON NAME	DESCRIPTION
ON / OFF	1. "ON/OFF" key only functions as a switch of the light. 2. If this button is pressed to turn off the fixture before power is turned off, the fixture will remain off after power is turned on again.
MW	A Microwave Sensor is installed. Do not activate this button.
Scene	Press "Scene" button. Otherwise all setting will be default. Default settings are - 100% detection range / Hold Time 5S / no standby time / daylight threshold disabled.
Start	Start - Press the button before choosing the parameters.
Memory	Memory - Press the button after choosing all the parameters to save them
Apply	Apply - Press the button to deliver the saved settings to the other sensors directly
Hold Time	The period of light keeping 100% brightness after moving objects leave the detection area.
Standby Period	The period of light keeping low output before it gets completely off. When it's preset as –, the light always keep at low output even no movement in the detection area.
Power %	Press the button to change the output power from 0% to 100% it changes 5% every press.
Test (2s)	The button "Test (2s)" is for testing purpose after comissioning. Pressing this button, the sensor goes to test mode (hold time is only 2s)
	Increase or decrease the parameters.
Daylight Threshold	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 of the ambient lux level.
Standby Dimming Level	The definition of low output during the standby period.
Detection Range	The area in which movement will trigger the sensor, 100% detection area also means strong sensitivity

MEMORY AND APPLY MODE.

1. Press the On/Off Button to turn the fixture on or off.
2. To Reset the parameters, follow steps as below:
   - Press ON to turn on the fixture if it is off.
   - Press START at the fixture being set.
   - Press the buttons of DETECTION RANGE, HOLD TIME, STANDBY DIMMING LEVEL, STANDBY PERIOD, and DAYLIGHT THRESHOLD one after the other in sequence. Press "+/-" to set Parameters.Press MEMORY to memorize the settings.

NOTE: THE INTERVAL OF EACH PARAMETER SETTING SHALL BE CONTROLLED WITHIN 30 SECONDS

3. To program other fixtures in the array that will have the same program.
   - Press ON to the second fixture.
   - Press APPLY.

ISOLATED SETTING MODE.

1. Press the On/Off Button to turn the fixture on or off. Press SCENE - the remote will activate settings that were saved last or remain at factory settings.
2. To reset the parameters, follow the steps below:
   - Press ON to turn the fixture on, if it was off to start.
   - Press any button of SCENE, TEST , APPLY to begin the sensor detection mode.
   - PRESS the buttons of Detection Range, Hold Time, Standby Dimming Level, Standby Period and Daylight Threshold one after the other in sequence.

NOTE:
- Setting will be saved automatically and remain until you press RESET again.
- Fixture will flicker when you are setting each parameter.
- The Icon will flash when setting the corresponding parameter.

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