


FUTURE>FIT
LED KITS

INSTALLATION AND OPERATING INSTRUCTIONS

CAT. NO. KT-RKITXXPS-XXPD-8CSA-VDIM /G2 /FC5

INSTALLATION

Product includes the following components:

PARTS	QUANTITY
LED Module including - LED Driver/Power Supply and LED Array (Not Field Replaceable)	1
Mounting Bars	2
Mounting Brackets	2
Installation Instructions	1
Luminaire Marking Labels	1
Miscellaneous Hardware include 4 pcs M4.2*16 screws	1

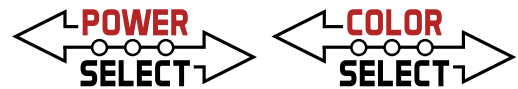
ELECTRICAL RATINGS

Fixture Size	Catalog No.	Color Temp.	Power	Input Voltage	Hz	A	Environment Rating
1' x 4'	KT-RKIT35PS-14PD-8CSA-VDIM /G2/FC5	3500K	20W	120-277Vac	50/60	Max. 0.35	Damp
		4000K	30W				
		5000K	35W				
2' x 2'	KT-RKIT35PS-22PD-8CSA-VDIM /G2/FC5	3500K	20W	120-277Vac	50/60	Max. 0.35	Damp
		4000K	30W				
		5000K	35W				
2' x 4'	KT-RKIT45PS-24PD-8CSA-VDIM /G2/FC5	3500K	30W	120-277Vac	50/60	Max. 0.45	Damp
		4000K	35W				
		5000K	45W				

NOTE: Power Select and Color Select are preset at 5000K and highest wattage.

To adjust lumen output use switch on back of panel labeled Power Select.

To adjust color temperature settings use the switch on back of panel labeled Color Select.



The units covered in this report are intended to retrofit Type IC or non-IC recessed mount Listed fluorescent luminaires with or without diffuser.

Minimum Luminaires Dimensions (2x4 panel): 48"(L) x 24"(W) x 4"(H).

Minimum Luminaires Dimensions (2x2 panel): 24"(L) x 24"(W) x 4"(H).

Minimum Luminaires Dimensions (1x4 Panel): 48"(L) x 12"(W) x 4"(H).

WARNING: Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING: Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

WARNING: Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

WARNING: Risk of fire or electric shock. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

WARNING: Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

Only those open holes indicated in these instructions may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.



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WARNING: Risk of fire. Input ratings may need to be determined based on any configuration(s) permitted by the installation instructions. Regardless of the configuration(s) of the retrofit kit, the input ratings of the overall retrofit kit shall not exceed the marked input ratings of the host luminaire.

THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.

CAUTION: Before installing, make certain the AC power to the fixture is off.

CAUTION: Rating of these products are 120-277V. Installer must confirm that there is 120-277V at the fixture before installation.

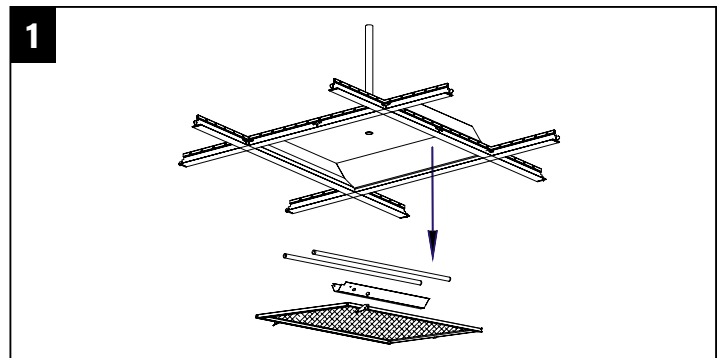
CAUTION: LEDs are extremely bright. Do not look directly at the LED light source for extended time as over-exposure may cause harm to the eyes.

SAVE THESE INSTRUCTIONS

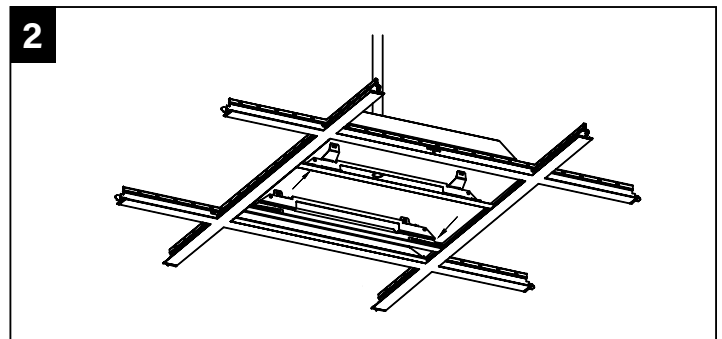
INSTRUCTIONS:

Always turn off the power supply from main circuit breaker first!

1. Dismantle accessories from the original housing (ballast, fluorescent tube, sockets, bracket and other accessories that may interfere the installation). Note: The original housing must be retained in place. Reserve the L&N wire of original housing to connect retrofit kit in later step. Plug previous holes from ballast with appropriate screws and nuts.



2. Insert the two brackets into the clearance between the housing and T-grid.



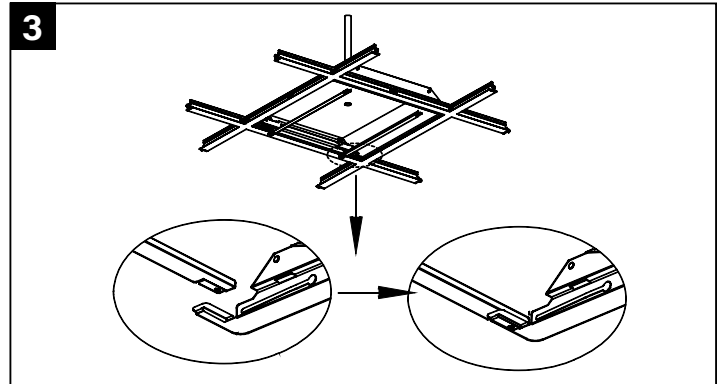


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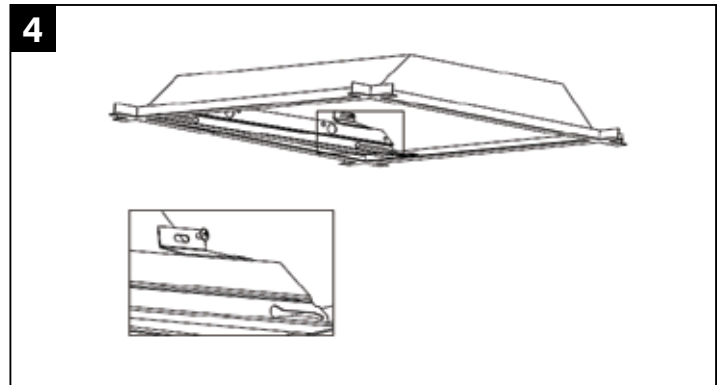
LED KITS

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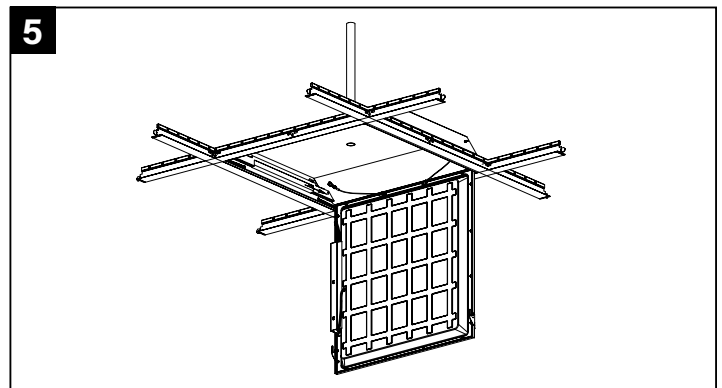
3. Insert the two side bars into the clearance between the brackets and the T-grid.



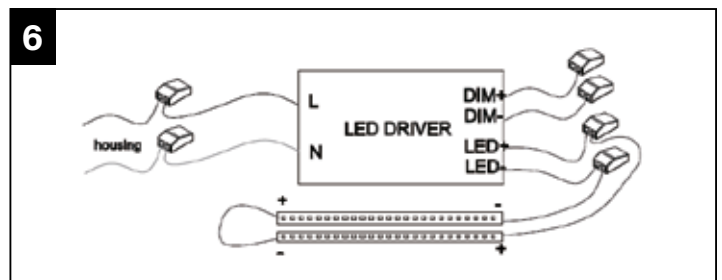
4. Using the included self-tapping screws, use electronic screwdriver to secure brackets into place through bracket mounting holes from inside of the fixture. Caution: Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Ensure that enclosed wiring and components have not been damaged.



5. Embed the rotary screws on the edge of the panel into the bracket chutes. Push to the end in the direction of chutes to secure panel.

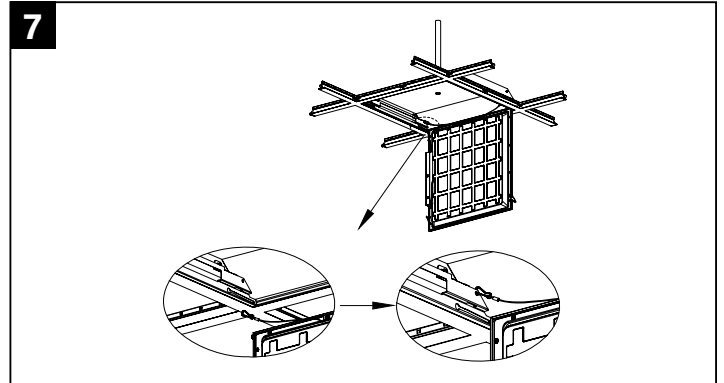


6. Connect L&N wire from original housing to the driver of the retrofit using appropriate connectors. If using 0-10V dimmer, connect DIM+,DIM- to 0-10V dimmer wires. Connect the green ground wire of the retrofit kit to the fixture with a wiring cap to ensure grounding safety.

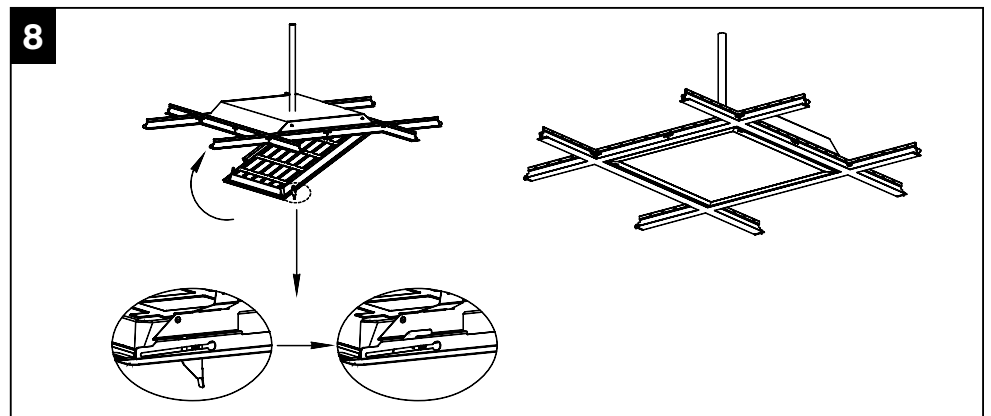


**KT-RKITXXPS-XXPD-8CSA-VDIM /G2 /FC5 INSTALLATION AND OPERATING INSTRUCTIONS**

7. Attach safety clips from the retrofit kit to the brackets.



8. Close the retrofit kit door into the fixture and rotate the clips to secure the door closed.





KTSL-FC5-12V-IM-PIR-X

INTEGRATED FIXTURE CONTROLLER

INSTALLATION AND OPERATING INSTRUCTIONS

Read and understand all warnings and notes stated below before proceeding with installation.

- Operating temperature: -30°C/-22°F to 55°C/131°F
- Do not use with enclosed metal luminaire.
- Do not expose directly to water.
- Not for outdoor use.
- Use only one controller per luminaire.

Warning: Install/use in accordance with appropriate electrical codes and regulations.

Avertissement: Installer/utiliser conformément aux codes et réglementations électriques appropriés.

Warning: If you are not sure about any part of these instructions, consult a qualified electrician.

Avertissement: Si vous n'êtes pas sûr d'une partie de ces instructions, consultez un électricien qualifié.

Warning: Controlling a load in excess of the specified ratings will damage the unit and pose risk of fire, electric shock, personal injury, or death. Check your load ratings to determine the unit's suitability for your application.

Avertissement: Le contrôle d'une charge dépassant les valeurs nominales spécifiées endommagera l'unité et posera un risque d'incendie, de choc électrique, de blessure corporelle ou de mort. Vérifiez vos

capacités de charge pour déterminer l'adéquation de l'unité à votre application.

Warning: To avoid fire, shock, or death, turn off power at circuit breaker or fuse box and test to ensure that the power is off before wiring. Installation without cutting power may also cause device malfunction.

Avertissement: Pour éviter un incendie, une électrocution ou la mort, coupez l'alimentation au disjoncteur ou à la boîte à fusibles et testez pour vous assurer que l'alimentation est coupée avant de procéder au câblage. Une installation sans coupure de courant peut également entraîner un dysfonctionnement de l'appareil.

Cautions:

- Disconnect power when servicing luminaire or changing bulbs.
- Use this device with copper or copper-clad wire only. With aluminum wire, use devices marked CO/ALR or CU/AL only.
- Do not attempt to disassemble or repair.
- Clean outer surface with a damp cloth only.

Précautions:

- Débranchez l'alimentation lors de l'entretien du luminaire ou du changement d'ampoule.
- N'utilisez cet appareil qu'avec du fil de cuivre ou recouvert de cuivre.
- Avec du fil d'aluminium, utilisez uniquement des appareils marqués CO/ALR ou CU/AL.
- N'essayez pas de démonter ou de réparer. Nettoyez la surface extérieure avec un chiffon humide uniquement.

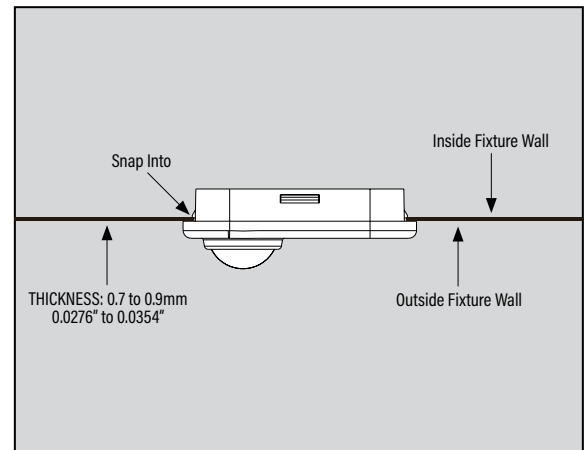


INSTALLING

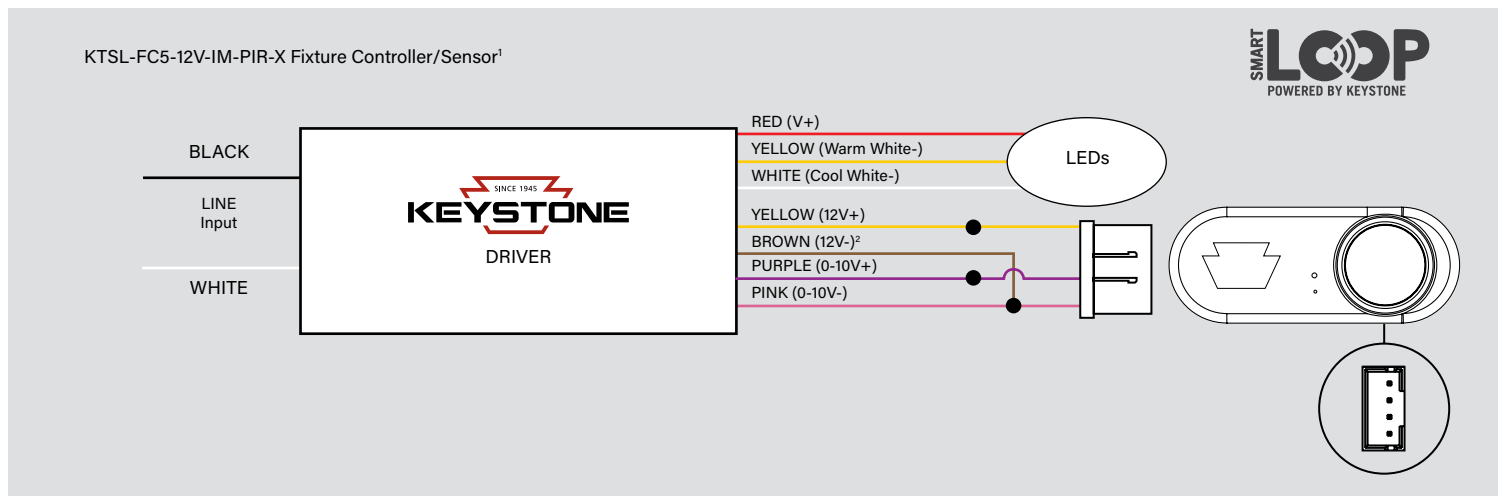
1. Insert connector from KTSL-FC5-WH-23* into receptacle located on back of controller.
2. Locate pre-cut controller mounting hole on Keystone fixture. Route wiring harness through the hole and snap controller into hole.
3. Connect controller harness wires to fixture's LED driver per the below diagram.

*Sold Separately

SmartLoop Website



WIRING DIAGRAM



¹Sensor itself does not have loose leads. Wiring diagram shown as sensor being used with wiring harness accessory KTSL-FC5-WH-23, which includes preinstalled connector to plug into sensor.

²Brown wire may not be present on some Keystone LED drivers. If no brown wire, the 12V- is shared through the pink 0-10V- connection. For more information, please contact Keystone Technologies.

COMMISSIONING

1. Search for 'SmartLoop' on the app store for iPhone (iOS 8.0 or later, and Bluetooth 4.0 or later), or google play store for Android (Android 4.3 or later, and Bluetooth 4.0 or later).
2. With controllers installed and lights powered on, press + or Click to Add. The app will begin searching for available lights.
3. Check each light to be commissioned to the region.
4. Press Add to confirm selections. The selected lights will now appear on the Lights page.
5. For further system commissioning, see User Manual at www.keystonetech.com.



DECOMMISSIONING

Decommissioning can be done by deleting a controller from the region, a power reset sequence, or by using the reset button for certain models.

In the app:

The phone/tablet must be connected to the device through the mesh network in order for the controller to be factory reset. Otherwise, the light will simply be removed from the region in the app, and the controller will need to be factory reset using one of the other methods below.

1. Go to the Lights page.
2. Press Select and check  the desired lights to decommission.
3. Press Delete and confirm.

Power cycle reset sequence:

If a controller is assigned to another region, it will not appear when searching for new fixtures. Perform the below power cycle sequence to factory reset the controller.

1. Power on for 1 second, then off for 10 seconds.
2. Power on for 1 second, then off for 10 seconds.
3. Power on for 1 second, then off for 10 seconds.
4. Power on for 10 seconds, then off for 10 seconds.
5. Power on for 10 seconds, then off for 10 seconds.
6. Turn the light back on. The device should now be decommissioned and ready to add to a region.

Reset button:

The reset button is accessed via a pinhole on the front face of the controller. While the device is powered, press and hold the button for 3 seconds to initiate a factory reset.



ORDERING INFORMATION

Catalog Number	PACK QTY.	UPC	Easy Code
KT-RKIT35PS-14PD-8CSA-VDIM /G2/FC5	1	843654164298	MZF-39
KT-RKIT35PS-22PD-8CSA-VDIM /G2/FC5	1	843654164304	NIN-20
KT-RKIT45PS-24PD-8CSA-VDIM /G2/FC5	1	843654164311	PTV-35