MODULED MATRIX

Indoor Installation for Type Non-IC (Dry & Damp Location)
Wet Location, Covered Ceiling Mount Only!

FOR USE WITH MATRIX MX SERIES RECESSED ONLY

Keep these instructions in a safe place for future use/reference.

SAVE THESE INSTRUCTIONS

CATALOG # : MXLTS1-105/MXLTS1-110/MXLTS1-115 (TRIMLESS DOWNLIGHT, MINIATURE LINEAR LED)

Important: Please read and understand all instructions completely before installing this fixture.

CAUTION – RISK OF FIRE. WARNING: Fixture installation (and use) and all electrical connections must be in accordance with the applicable installation local and National Electrical Codes (N.E.C.) rules, regulations codes and standards by a person familiar with the construction and operation of the product and the hazards involved. If you are unfamiliar with installing fixture(s), accessories and/or electrical wiring have a qualified licensed electrician install this fixture for you. Fixture should be installed by a qualified electrician.

WARNING: RISK OF SHOCK. House electric current can cause painful shock or serious injury.
WARNING (DANGER - RISK OF SHOCK) : Always disconnect power before fixture installation, wiring, or maintenance.
WARNING: Before starting the wire connections, disconnect the power by turning off the circuit breaker or removing the fuse at the fuse panel. Turning the power off using the light switch is not sufficient to prevent electrical shock.

For installation use supply conductors rated 90° C. This luminaire must be connected with supply wire rated at 90° C. Most dwellings built before 1985 have supply wire rated at 60° C; consult a qualified electrician before installing.

Access above ceiling is required before installation, wiring, and/or maintenance.

WARNING: Before service insure fixture is cool to touch.
WARNING: Check fixture for input voltage before connecting power to fixture.
Consult a qualified electrician to ensure correct branch circuit conductor.
DO NOT INSTALL DAMAGED PRODUCT!
Do not make or alter any open holes in a wiring enclosure nor any electrical components during kit installation.

WARNING: RISK OF SHOCK. This Luminaire is suitable for Dry and Damp Location. TYPE NON-IC installation. Suitable for Wet Location, Covered Ceiling Mount Only!

DO NOT INSTALL INSULATION WITHIN 76 mm (3 in) OF ANY PART OF THE LUMINAIRE.
WARNING: Do not install any fixture or assembly (etc.) closer than 6" from any curtain, or similar combustible material. No insulation allowed on the top. Install housing at a minimum of 1/2" away from combustible material such as wooden ceiling joists, sub-flooring, or roofing (etc.).

Fixture must be installed on a circuit protected by Ground Fault Circuit Interrupter (GFCI).

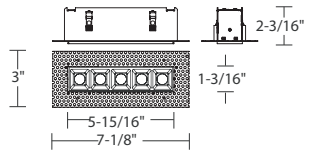
Install LED fixture(s)/LED driver(s) only on their own circuit. Do not mix any other products (Incandescent, Compact Fluorescent, H.I.D. products/fixtures, etc...) with LED fixture(s)/LED driver(s) on a single circuit.

Do not use any other electrical equipment (example: surge protector photocell, etc.) that is not (rated) for use with LED fixture(s)/LED driver(s) on the same circuit as LED fixture(s)/LED driver(s).

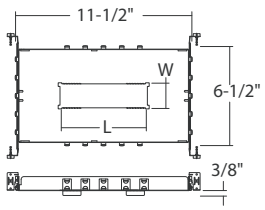
Install remote surge protector(s) (by others, goes on the circuit with nothing between the surge protector and the LED fixture(s)/LED driver(s)), if the fixture is not already installed with a surge protector, to help remove power surges that may harm LED fixture(s), appropriate for the installation. Periodically check and make sure that your remote surge protector(s) are in good working order.

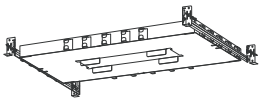
MXLTS Parts

MXLTS1-105



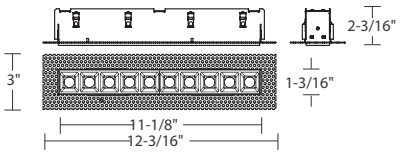
MXL105-FRM (For fiture MXLTS1-105)





Ceiling Cut-Out
5-15/16" L x 1-11/16" W (MXLTS105 - Trimless)

MXLTS1-110



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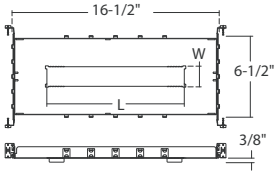
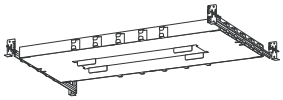
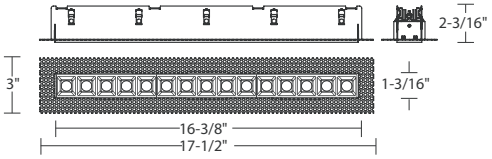


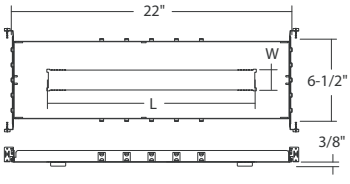


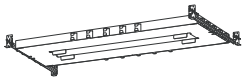
Ceiling Cut-Out
11-1/8" L x 1-11/16" W (MXLTS110 - Trimless)

MXLTS1-115



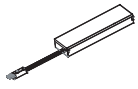
MXL115-FRM (For fiture MXLTS1-115)





Ceiling Cut-Outs
16-3/8" L x 1-11/16" W (MXLTS115 - Trimless)

LED Driver (Eternally mounted)

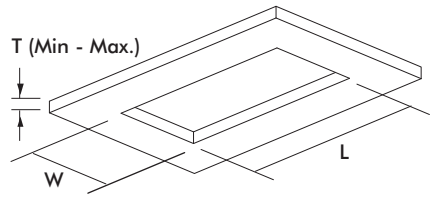


INSTALLATION INSTRUCTIONS

CATALOG # : MXLTS1-105/MXLTS1-110/MXLTS1-115 (TRIMLESS DOWNLIGHT, MINIATURE LINEAR LED)

SAVE THESE INSTRUCTIONS

(1)



Ceiling Opening

Fixture	Length (L)	Width (W)	Thickness (T) – Min – Max
MXLTS1-105	5-15/16"	1- 11/16"	0.5" – 0.875" (1/2" - 7/8")
MXLTS1-110	11-1/8"	1- 11/16"	0.5" – 0.875" (1/2" - 7/8")
MXLTS1-115	16-3/8"	1- 11/16"	0.5" – 0.875" (1/2" - 7/8")

NOTE: Access above ceiling is required before installation, wiring, and/or maintenance.

Retrofit:

1. Before cuting ceiling check above ceiling for adiquite space and for any obstructions (e.g. wires, frames. etc.)
2. Cut hole size in ceiling for fixture (see above table) (Skip to Wiring #7 below)

New Construction:

"New Construction Frame" (FRAME) to Joist-type ceiling:
3) Extend bar hangers to fit between joists (FIG 1).
4) Position FRAME temporarily by hammering "Nail" into joists (FIG 2) then secure permanently with nails Hanger. FRAME should be level with bottom of joists.
"New Construction Frame" (FRAME) to T-BAR:
5) Suspended (T-bar) ceilings-extend bar hangers 1" past T-bars, then rest FRAME on T-bars, Secure FRAME to T-bars with wire (FIG 3)
6. Cut hole size in ceiling for fixture (see above table)

FIG. 1

FIG. 2

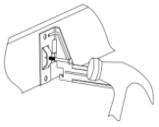
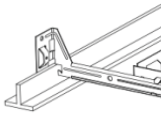
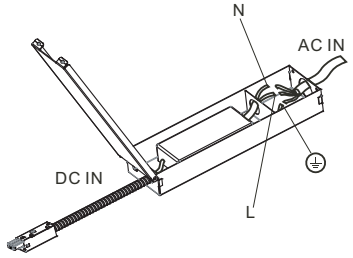


FIG. 3



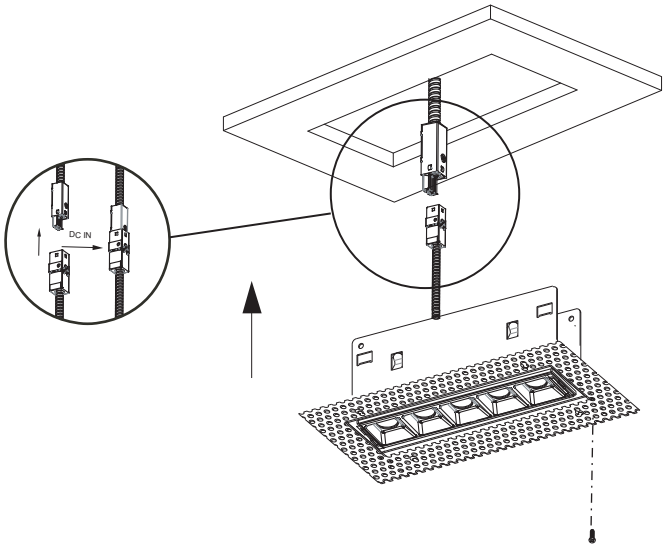
(2)



WIRING

7. WARNING: Always disconnect power before fixture installation, wiring, or maintenance. NOTE: Check fixture for input voltage before connecting power to fixture. Connect wiring from j-box to LED driver in housing (see above). For dimming information (wiring diagrams, chart, etc.) see fixtures website page(s).
8. Connect ground wire (green or bare copper/aluminum) from the supply circuit to the ground wire (green or bare copper) /screw/connector from the fixture.
9. Connect the neutral (common) wire from the power supply circuit to the neutral wire from the fixture.
10. Connect the main voltage supply wire (line/lead) from the power supply to theline (lead) wire from the fixture.
11. Secure connection using UL Listed wire nuts/connectors and then with UL Listed Electrical tape (by others), as required, appropriate for the connection.

(3)



12. Put LED driver (in housing) up through ceiling and bring LED driver cable through hole.

13. Connect fixture tab into LED tab see above.

14. Install fixture in housing. Use enough screws (by others, appropriate for the ceiling surface) in fixtures expanded metal to secure fixture to ceiling surface material (Retrofit and New Construction). Mud over fixture perforated metal and as needed paint ceiling (as needed).

INSTALLATION INSTRUCTIONS

MODULED MATRIX

Indoor Installation for Type Non-IC (Dry & Damp Location)
FOR INSTALLATION INTO WOOD CEILING ONLY!

Keep these instructions in a safe place for future use/reference.

CATALOG # : MXLTS1-102/105/110/115 (TRIMLESS DOWNLIGHT, MINIATURE LINEAR LED, WOOD INSTALLATION)

SAVE THESE INSTRUCTIONS

Important: Please read and understand all instructions completely before installing this fixture.

CAUTION – RISK OF FIRE. WARNING: Fixture installation (and use) and all electrical connections must be in accordance with the applicable installation local and National Electrical Codes (N.E.C.) rules, regulations codes and standards by a person familiar with the construction and operation of the product and the hazards involved. If you are unfamiliar with installing fixture(s), accessories and/or electrical wiring have a qualified licensed electrician install this fixture for you. Fixture should be installed by a qualified electrician.

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Access above ceiling is required before installation, wiring, and/or maintenance.

WARNING: Before service insure fixture is cool to touch.
WARNING: Check fixture for input voltage before connecting power to fixture.
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DO NOT INSTALL DAMAGED PRODUCT!
Do not make or alter any open holes in a wiring enclosure nor any electrical components during kit installation.

WARNING: RISK OF SHOCK. This Luminaire is suitable for Dry and Damp Location. TYPE NON-IC installation. Suitable for Wet Location, Covered Ceiling Mount Only!

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WARNING: Do not install any fixture or assembly (etc.) closer than 6" from any curtain, or similar combustible material. No insulation allowed on the top. Top of housing should have a minimum clearance of 1/2" from combustible material such as wooden ceiling joists, sub-flooring, roofing (etc)

Fixture must be installed on a circuit protected by Ground Fault Circuit Interrupter (GFCI).

Install LED fixture(s)/LED driver(s) only on their own circuit. Do not mix any other products (Incandescent, Compact Fluorescent, H.I.D. products/fixtures, etc...) with LED fixture(s)/LED driver(s) on a single circuit.

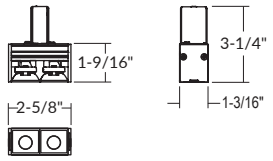
Do not use any other electrical equipment (example: surge protector photocell, etc.) that is not (rated) for use with LED fixture(s)/LED driver(s) on the same circuit as LED fixture(s)/LED driver(s).

Install remote surge protector(s) (by others, goes on the circuit with nothing between the surge protector and the LED fixture(s)/LED driver(s)), if the fixture is not already installed with a surge protector, to help remove power surges that may harm LED fixture(s), appropriate for the installation. Periodically check and make sure that your remote surge protector(s) are in good working order.

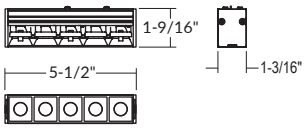
MXLTS1-102/105/110/115

FIXTURES (Includes remote LED Driver)

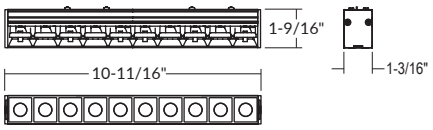
MXLTS1-102



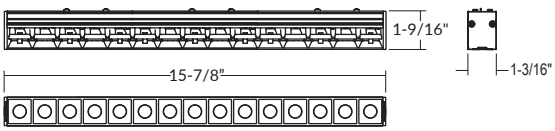
MXLTS1-105



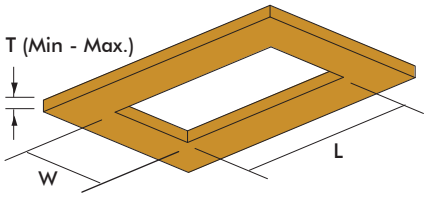
MXLTS1-110



MXLTS1-115



STEP 1, Ceiling cutout



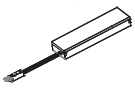
Ceiling Opening

Fixture	Length (L)	Width (W)	Thickness (T) – Min to Max.
MXLTS1-102	2-5/8"	1- 1/4"	0.5" – 0.875" (1/2" - 7/8")
MXLTS1-105	5-1/2"	1- 1/4"	0.5" – 0.875" (1/2" - 7/8")
MXLTS1-110	10-3/4"	1-1/4"	0.5" – 0.875" (1/2" - 7/8")
MXLTS1-115	15-7/8"	1-1/4"	0.5" – 0.875" (1/2" - 7/8")

NOTE: Access above ceiling is required before installation, wiring, and/or maintenance.

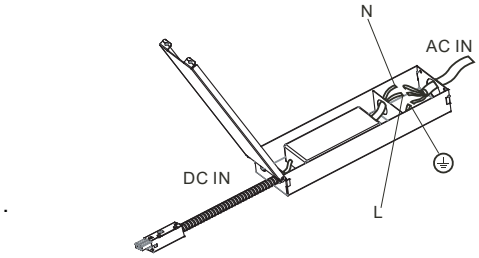
1. Before cutting ceiling check above ceiling for adequate space and for any obstructions (e.g. wires, frames. etc.)
2. Cut hole size in ceiling for fixture (see above table) This is a very tight tolerance, do not exceed max cut size, better to be slightly under than over, a wood file can be used to open cutout more if needed.

LED Driver (Externally mounted)



INSTALLATION INSTRUCTIONS

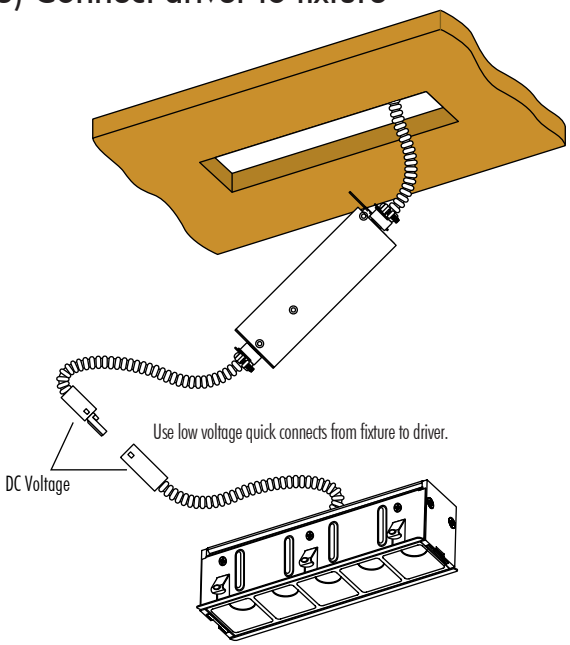
2) Remote LED Driver install



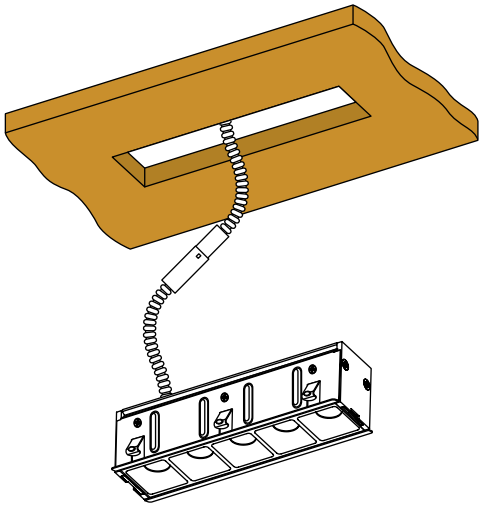
NOTE: Check fixture for input voltage before connecting power to fixture. Connect wiring from j-box to LED driver in housing (see above). For dimming information (wiring diagrams, chart, etc.) see fixtures website page(s).

1. Connect ground wire (green or bare copper/aluminum) from the supply circuit to the ground wire (green or bare copper) /screw/connector from the fixture.
2. Connect the neutral (common) wire from the power supply circuit to the neutral wire from the fixture.
3. Connect the main voltage supply wire (line/lead) from the power supply to theline (lead) wire from the fixture.
4. Secure connection using UL Listed wire nuts/connectors and then with UL Listed Electrical tape (by others), as required, appropriate for the connection.

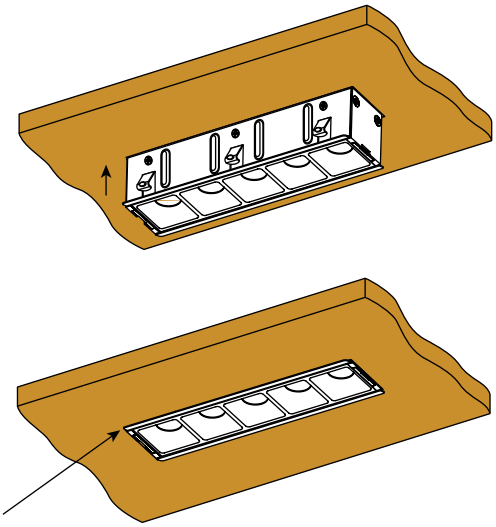
(3) Connect driver to fixture



(4) Slide LED driver up into ceiling.



(5) Insert fixture into cutout.



Press in all the way to the edge If fixture goes past edge, the hole is too big and needs to be shimmed.

INSTALLATION INSTRUCTIONS