

APPLICATION SPECIFICATION

LED ARRAY HOLDER APPLICATION SPECIFICATION

1.0 SCOPE

This specification outlines a standard installation and re-work of a Molex LED array holder. These products have two contact points where wires are inserted into releasable wire traps to power the array. Wires can be released for rework or replacement. Additional products such as a directional optic or clear protective cover can be applied during or post installation. This file outlines a re-work or removal of an LED array using the Molex releasable wire-trap.

2.0 PRODUCT DESCRIPTION

This connector consists of a housing with two releasable wire-traps and two wire trap caps or a cover to secure the terminals. Each wire trap can accept 18 – 20 gauge pre-tinned or solid core wire.

2.1 PRODUCT NAME AND PART NUMBER

Material	Material Description
1801500000	ES LED HOLDER W/O COVER
1801500001	ES LED HOLDER WITH COVER
1801900000	HOLDER CITIZEN CL-L340 WITHOUT LENS
1801900001	HOLDER CITIZEN CL-L340 WITH LENS
1802200000	CREE CXA20 LED HOLDER W/O COVER W/O RIBS
1802200001	CREE CXA20 LED HOLDER W COVER W/O RIB
1802600000	HOLDER CITIZEN CL-L330
1803300002	MEGA ZENIGATA HOLDER STANDARD VERSION
1803300003	MEGA ZENIGATA ZHAGA COVER
1803900002	MINI ZENIGATA HOLDER STANDARD VERSION
1805600001	CREE CXA15
1805800001	NICHIA L SERIES LED HOLDER

3.0 REFERENCE DOCUMENTS

Refer to the appropriate file for part numbers and dimensions (SD-180***-000)

Refer to PS-180***-000 for connector product specification

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AS-180328-001	J. ZIDEK	C. CARRANZA	D. MCGOWAN

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4.0 PROCEDURE

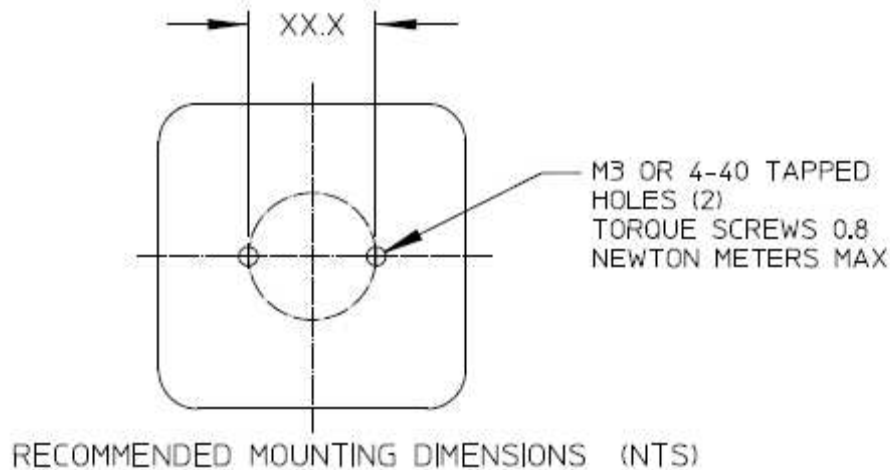
4.1 GENERAL REQUIREMENTS

4.1.1 Materials needed for installation

- 1) Machine Screws (M3 or 4-40 Screws)
- 2) Torque Wrench (0.8 Newton Meters Max Torque)
- 3) Thermal interface material (SIL Pad, phase change pad, or Thermal Grease)
- 4) Power Supply to power LED Array
- 5) Wire Cutter/Stripper
- 6) Straight Pin (Only needed for removal or replacement)

5.0 ASSEMBLY INSTRUCTIONS

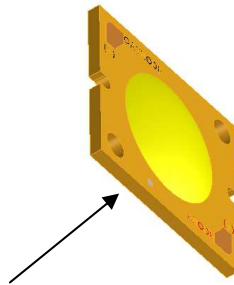
5.0.0 - Tap 2 M3 or 4-40 holes in the Heat sink or fixture for the holder screws. See applicable sales drawing for proper hole spacing.



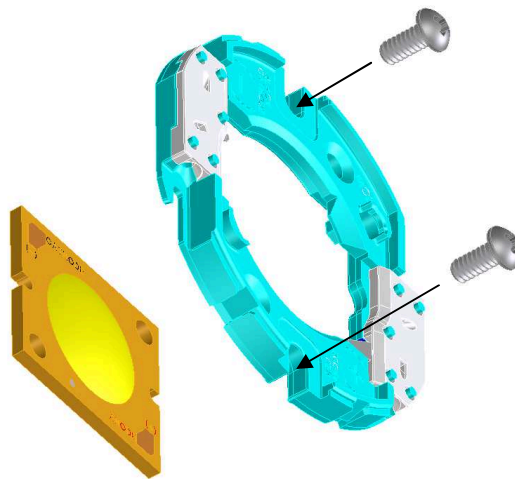
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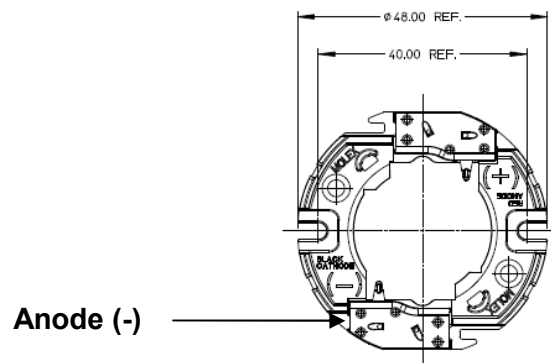
5.0.1 – Apply thermal interface material to the back of the LED



5.0.2 – Apply the M3 or 4-40 screws with .8 Nm (MAX) of force on each screw



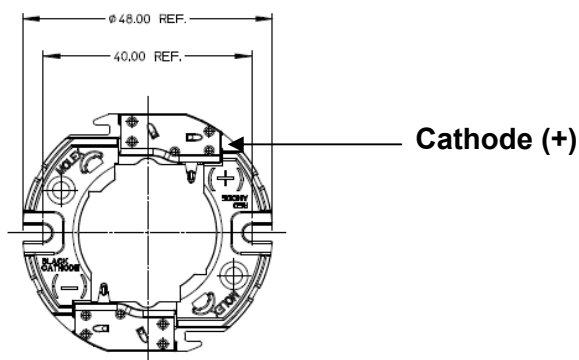
5.0.3 – Insert the black wire into the indicated anode (-) wire trap slot



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5.0.4 – Insert the red wire into the indicate cathode (+) wire trap slot

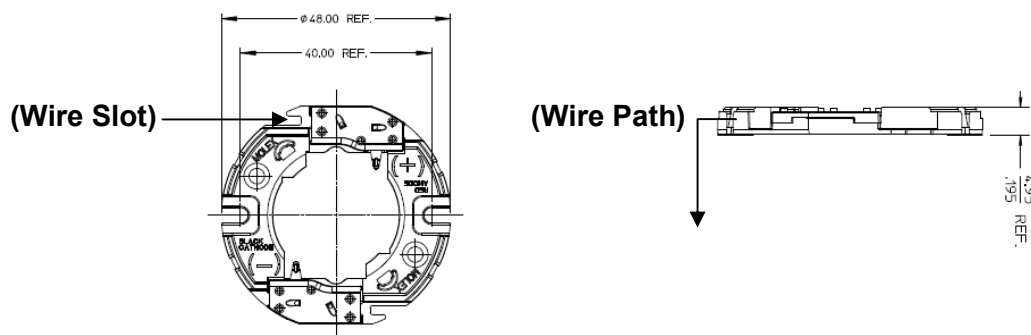


Note: wires can be inserted at either end of the Cathode (+) wire trap

Note: wires can be inserted at either end of the Anode (-) wire trap and should maintain 10mm (+2/-0 mm) strip length

5.0.5 – Bend wires through the slots in the holder (*Only available on select holder designs*)

Note: This step is only required if the wire path holes are directly below the wire slot on the holder

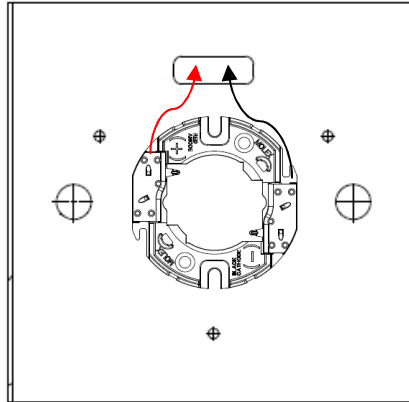


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5.0.6 – Thread wires through the two original wire path holes in the heat sink/fixture

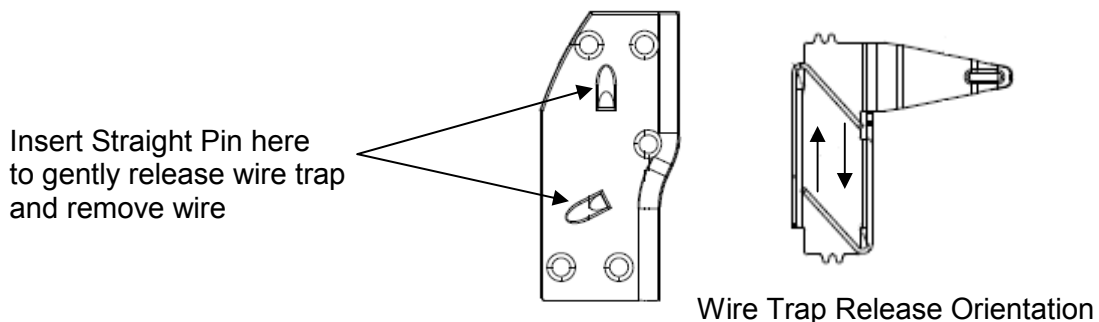
Note: Heat sink/Fixture may need to be pre-drilled for wire path



5.0.7 – Pull wires through holes ensuring that the holder is placed and fits flush on the top of the heat sink or with the mounting area on the inside of the fixture

Note: wire strain relief inside fixture recommended prior to attaching power source

5.0.8 – Removal of wire from wire trap



Note: Do not overstress beam when removing, only gentle pressure of 4 Newton or less is required

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