



Models

50-2101CR, 50-2102CR, 50-2303CR,
50-2103CT, 50-2204CT, 50-2100LG,
50-2100NC, 50-2103NC, 50-2100SH
50-2234C, 50-2102SL

CHIP-LOK® COB Array Holder
Installation Instructions

WARNING		
	<p>Electrical Shock Hazard. Contact with high voltage may cause falling, serious injury, or death. Disconnect power before servicing. Never install holder without COB array. COBs manufactured by Edison, Lextar, LG Innotek and Osram have exposed live components; use in Class 2 or SELV applications only unless Luminaire provides sufficient electrical protection.</p>	
	<p>Electrical Fire Hazard. Use in application exceeding voltage and current ratings listed can cause an electrical fire resulting in serious injury or death. Only use in accordance with Table 1 and local electrical wiring code.</p>	

For factory assembly into portable lamps and luminaires.

TABLE 1: Rated Wire (Use copper conductors only)

WIRE TYPE		
Solid	18-24 AWG	0,25 - 1,0mm ²
Tin Bonded	18-24 AWG	0,25 - 1,0mm ²
Stranded	18 -22 AWG	0,50 - 1,0mm ²
Voltage (except as noted below)*	250V*	150V*
Current (except as noted below)*	4A*	2A
Temperature	110°C	T-110

**COBs manufactured by Edison, Lextar, LG Innotek and Osram have exposed live components; use in Class 2/SELV applications only unless Luminaire provides sufficient electrical protection.*

Wire Insertion Instructions

- Strip wires to 7 mm (1/4" - 5/16").
- Grip wire firmly and push conductor into wire port (Figure 1). Do not pre-twist stranded wire. Gently pull conductor to ensure proper insertion. Repeat with other wires.
- Use only one conductor per port and assure that no copper is exposed on any of the wires inserted.

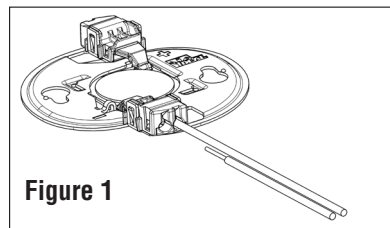
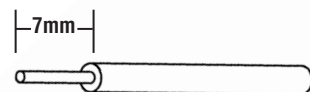


Figure 1



Installation Instructions:

- Preinstall M3 #4 or #5 pan head screws into luminaire. (Except 50-2234C/50-2204CT)
- Hold CHIP-LOK® holder in one hand; LED array in other hand.
- Locate and align the "+" marking on both products.
- Set LED array into holder so that the edge of array touches side of spring leg. (Figure 2)
- Push array toward spring leg and down to seat into holder. (Never install holder without COB array.) Energizing luminaire without COB array installed could cause electrical shorting to heatsink.
- Apply thermal paste/pad to array or heatsink (Max. pad thickness of 0,5mm)
- Insert holder/array assembly over screws through keyways (Figure 3) and rotate holder clockwise (Except 50-2234C/50-2204CT).
- Tighten screw farther from spring leg first.
- Torque screws to 0.3 – 0.5 N-m (2.5 – 4.5 in-lb). Contact IDEAL for a proper torque if using thread forming screws.

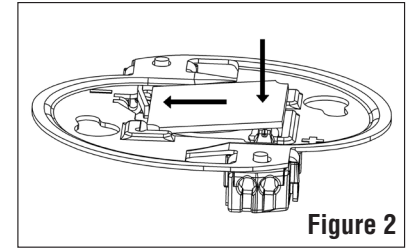


Figure 2

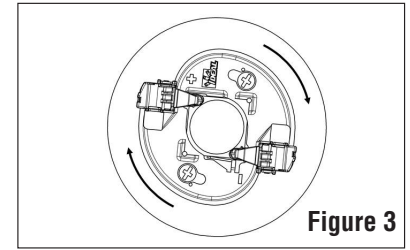


Figure 3

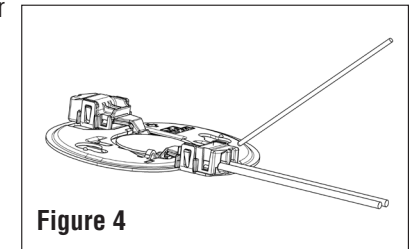


Figure 4

Removal of Wires:

- Insert a 0.040 inch (1 mm) diameter pin in to wire removal slot. (Figure 4)
- Pull wire to release.

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