

Project Name:

Location:

Specifier:

Rep Agency:

Fixture Type:

Product Code:

# KLIK LEDpod™ 40 Patented

## Description

Discrete, seamless point source LED fixture for use in all code-compliant handrail, especially curving ramps and helical stairs as well as long runs on bridges and pedestrian paths. Asymmetric optic allows mounting at rail nadir, eliminating uncomfortable glare issues.

## Housing

Clear anodized aluminum body as standard. Color-match anodized or bronze body as options, consult factory.

Aluminum body has a fine 25-micron finish and is then hard-coat anodized, thus preventing galvanic corrosion. Silicone gasket seals the installation from water ingress and provides added means of electrical isolation to minimize potential for galvanic reaction.

## Mounting

Patented attachment method offers unparalleled security and ease of mounting. Requires only a simple drilled hole in railing material, eliminates threading, gluing or exposed fasteners common among other handrail fixtures. All conductors remain internal to railing to provide secure and safe wiring. IK10 Impact rating ensures vandal resistance. Tamperproof anti-theft option available for extreme environments; consult factory.

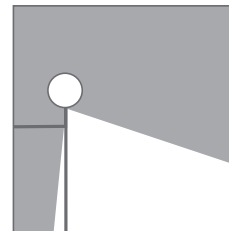
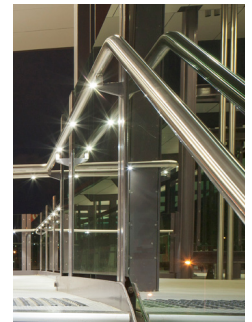
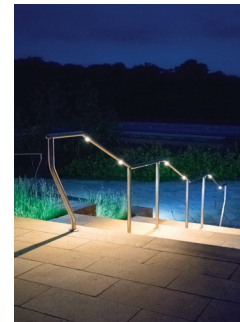
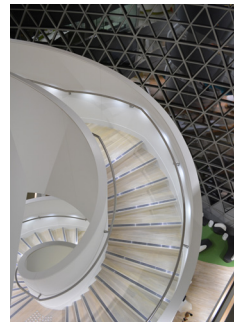
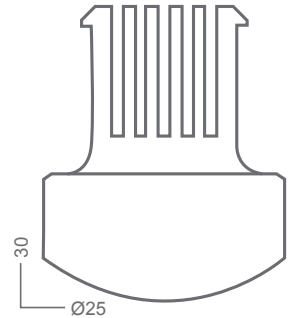
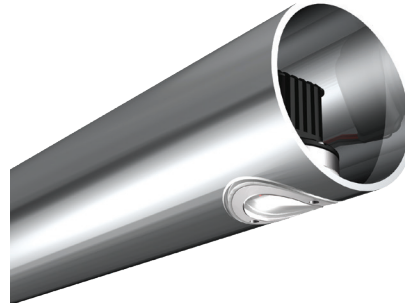
- Tube Size: Ø 1.5" - 1.75", Max. wall .2" *Other sizes available upon request*
- Cut Out: 25mm
- Weight: 0.16 LBS

## Electrical/LED Driver

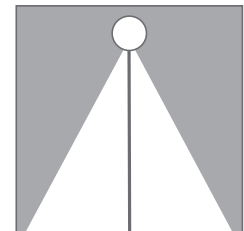
- Input Voltage: 24 VDC
- Operating Temp: -40 to 120° F
- Efficiency: 88 lm/W
- Driver: Must use class 2 driver
  - Primary Driver: 110 - 277 VAC UL Listed Constant Voltage
  - Secondary Driver: 350 - 500mA Constant Current (provided with fixture)
- Control: DALI, 0-10V, DMX
  - DMX control for dimming only, not for individually addressed LEDpod
- Enclosure: Minimum NEMA 3R required
- Wire connectors provided; factory pre-wire available, consult factory

## Listings

- ETL listed, UL 1598/CSA 22.2; CE
- cETL
- IP65 rated *All IP rated luminaires tested to AS60529-2004 Degrees of protection provided by enclosures (IP Code)*
- IK10 Impact Resistance
- Wet location rated



Asymmetric



Symmetric



## Product Codes

Follow the steps to specify your fixture. Enter Product Code in field at top of page. Example: **LP4030KA40DIM**

Fixture Type	Rail Size <sup>1,2</sup>	Color <sup>3</sup>	Distribution	Rail Wall Thickness <sup>4</sup>	Dimming <sup>5</sup>	Lens Option
LP LEDpod	40 1.50" Tube -or- 1.66" Pipe	27K 2700K 30K 3000K 35K 3500K 40K 4000K AMB Amber	A Asymmetric S Symmetric	1512 1.5" x 11ga Tube (.12 wall) 1513 1.5" x 1/8 Wall Tube 05 Sch 5 Pipe 10 Sch 10 Pipe 40 Sch 40 Pipe 80 Sch 80 Pipe CUST Non-stock	DIM Dimmable <i>Note: 1.5 Watt is non-dimmable</i>	Clear lens standard  Add FRS for frosted diffused lens  Add OTK for Optek-film diffused lens

1. Additional sizes are available as special order, contact factory for rail dimensions other than those shown on this sheet.
2. Bronze material requires a special clip, contact factory for more information.
3. Also available in blue (BLU), green (GRN), red (RED), and custom color temperature (as special order).
4. *Wall thickness of 0.120" is common to steel & stainless; wall of 0.125" common to aluminum*
5. *Additional charges and lead time apply for this feature.*
6. Tamper proof option offers additional protection in extreme environments. *Additional charges and lead time apply for this feature.* To specify; add "TP" to product code.
7. To Specify 1.5 Watt; add "0350" to product code.

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**LED Performance**

 LED: Cree XT-E  
 CCT: 2700, 3000, 4000 (others available)  
 CRI: 80-85  
 Life: 80% at 50k hrs and 85° C  
 Binning: 3 MacAdam Steps  
 Warranty: 5 Year Warranty

**Lumens/Fixture or Pod**

STANDARD		SPECIAL ORDER	
2W/POD Transparent		1.5W/POD Transparent*	
3000K	145	3000K	107
4000K	154	4000K	114
5000K	176	5000K	130

\*Contact factory for 1.5W POD

Optics				Reflector	
Beam Angle				Symmetrical	Asymmetrical
LOR defined by optics				76	74
lm	W	mA	V	System Lumens @4000K	
120	1.4	350	3	92	89
162	1.9	500	3	124	120

**Remote Mounting Distance Chart**

24 VDC 100W Driver	Approximate Distance From Driver to First LED at 37 Fixtures			
Wire Size	10 AWG	12 AWG	14 AWG	16 AWG
Distance	525'	328'	213'	131'

 Calculations based on 2' centers between pods.  
 Increased spacing reduces number of pods per circuit.

**Primary Driver**

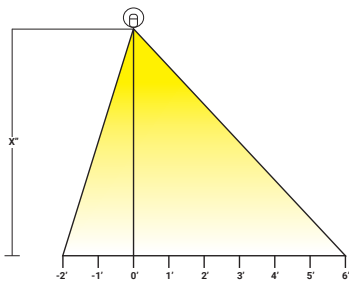
Primary Driver	Secondary LED Driver	Spacing	Maximum KLIK LEDpods™*
110 - 277 Primary Voltage Remotely Mounted Dimming Control 10" x 1.5" x 2"	500mA	24"	37
	350mA	24"	50

\*Based on 16 AWG between LEDpods

**Accessories**

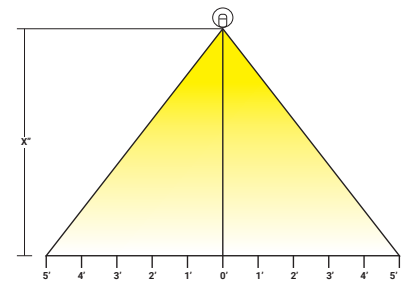
- LP100WPRITRNOND Class 2 Driver, Non-Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty *Used for non-dimming KLIK LEDpods*
- LP100WPRITRNDIM Class 2 Driver, Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty *Used for dimming KLIK LEDpods*
- LPNEMA3RENCL NEMA 3R Drip Proof Enclosure, 4" x 4" x 18" (IP32 Equivalent)
- LPNEMA4ENCL NEMA 4 Watertight Enclosure, 14" x 8" x 6" (IP66 Equivalent)
- LPNEMA6PENCL NEMA 6P Submersible Enclosure 15" x 8" x 6" (IP67 Equivalent)

Additional driver &amp; enclosure configurations available

**KLIK LEDpod™ Footcandle Chart**


Asymmetric

X = Rail Height (34" Tall Handrail or 42" Tall Guardrail)  
 Optic Height: 34" - 1.57" (Handrail Diameter) = 32.43" (2.7')  
 42" - 1.57" (Handrail Diameter) = 40.43" (3.37')



Symmetric

		2' 1' 0 1' 2' 3' 4' 5' 6' 7'											
1.5 Watt	KLIK LEDpod™ 40 350mA Asymmetric	34" Tall Handrail	0.39	0.96	4.09	5.09	3.63	2.64	1.27	0.58	0.24	0.08	
		42" Tall Handrail	0.36	0.86	2.63	3.29	2.73	2.03	1.47	0.81	0.43	0.22	
	KLIK LEDpod™ 40 350mA Symmetric	34" Tall Handrail	2.74	5.22	6.00	5.22	2.74	0.91	0.15	0.05	0.02	0.01	
		42" Tall Handrail	2.16	3.62	3.85	3.62	2.16	1.35	0.38	0.10	0.04	0.02	
2 Watt	KLIK LEDpod™ 40 500mA Asymmetric	34" Tall Handrail	0.53	1.29	5.53	6.87	4.90	3.57	1.72	0.78	0.33	0.11	
		42" Tall Handrail	0.48	1.17	3.55	4.44	3.68	2.75	1.98	1.10	0.58	0.30	
	KLIK LEDpod™ 40 500mA Symmetric	34" Tall Handrail	3.70	7.05	8.11	7.05	3.70	1.23	0.20	0.07	0.03	0.01	
		42" Tall Handrail	2.92	4.90	5.20	4.90	2.92	1.83	0.52	0.13	0.05	0.02	

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**Installation Instructions** Additional instructions may apply, consult factory.

Use a 25mm annular cutter to bore hole. (Use 1" in aluminum.)

Ø 0.98"

1.18"

Ø 1.02"

OD 1.50"  
1.66"

Ø 25 ± 0.2mm

1 Make sure drilled holes are deburred and excess swarf is removed from railing.

2 Feed through appropriate wires (14ga - 18ga).

3 Pull a loop of wire through hole.

4 Rotate retaining clips in as shown. Avoid tangling or severing through wire.

5 Apply pressure as shown to deform clip into place in a circular motion. Avoid damaging the surface of tube and tangling or severing through wire.

6 Fit clip into place until the clamping ends are equally centered over the hole. Use the tool to center the clip until equal pressure can be felt and inspect by eye.

7 Install Scotchlok connectors to the red and black wires. Connect the corresponding color wires of the driver to the Scotchlocks and assure the clip is secured.

8 CAREFULLY feed the Scotchlocks to the left of the clip and the driver to the right with the driver connector hanging out. Ensure wires are clear from where the LEDPOD is to fit.

Proceed to connect the LEDPOD.

POSITVE [+]: Red  
NEGATIVE [-]: Black

Sweep wires to side after driver is set in rail (depicted in step 6)

Light direction

The notch indicates the direction of the light, Asymmetrical LEDPods

9 Push LEDPOD in until it snaps into place and the outer surface is flush with the outer surface of the tube.

Prod the rim of the clear silicone IP Seal to provide a tighter fit.

### LEDPOD Removal Steps

1 Insert removal tool into the 2mm holes in the LEDPOD. With firm pressure, rotate the LEDPod 90°.

2 Carefully peel back the IP silicone seal one side at a time.

3 Carefully remove the LEDPOD from the clip, ensuring not to damage or disconnect wires in the process.

Be sure to re-attach the silicone seal ready for reinsertion.

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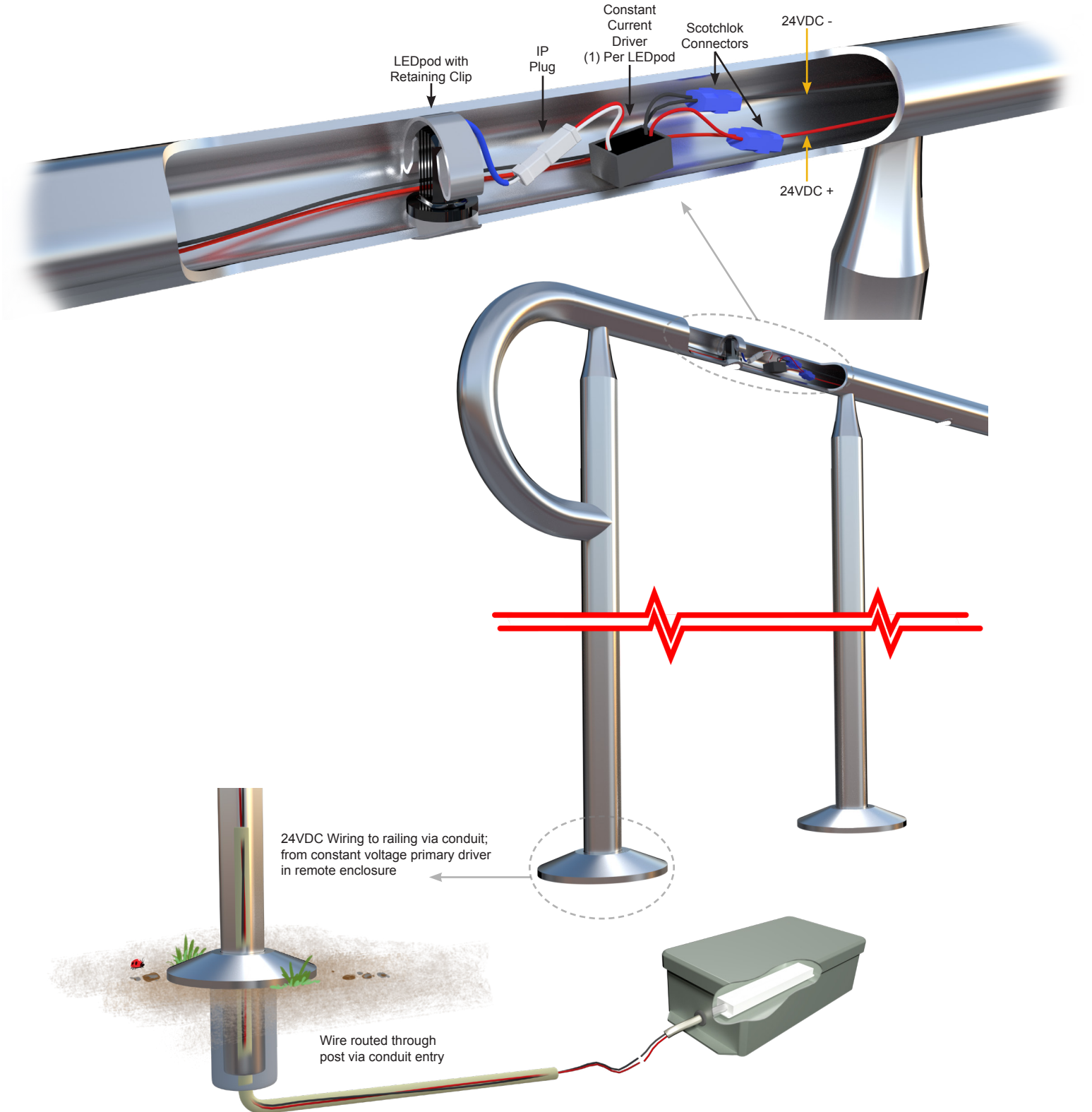
Specifier:

Rep Agency:

Fixture Type:

Product Code:

**Wiring Diagram - Post Mounted**



Project Name:

Location:

Specifier:

Rep Agency:

Fixture Type:

Product Code:

**Wiring Diagram - Wall Mounted**

