

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

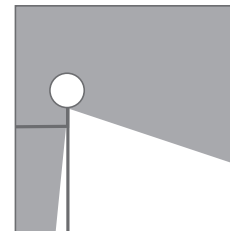
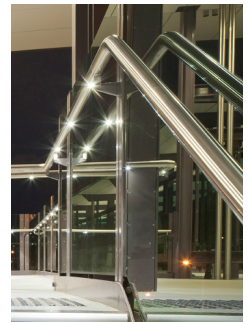
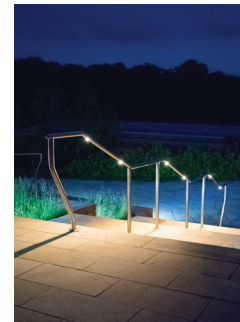
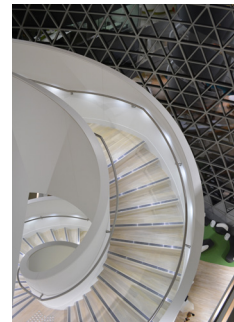
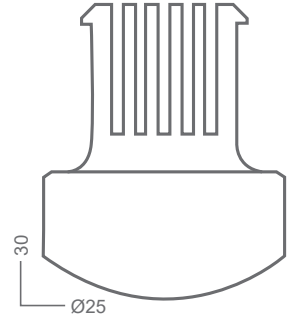
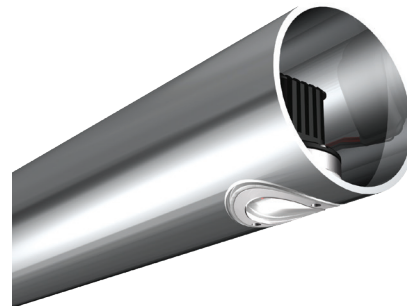
Electrical/LED Driver

- 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 - 700mA Constant Current (provided with fixture)
- Control: DALI, 0-10V, DMX
 - DMX control for dimming only, not for individually addressed LEDpod
- Enclosure: Minimum NEMA2 for indoor, NEMA 3R for outdoor
- Wire connectors provided; factory pre-wire available, consult factory

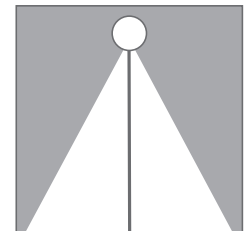
*Please note, all KLIK fixtures are now dimmable as standard
 *Must purchase Driver and Enclosure through KLIK to hold warranty

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
- International Dark Sky Association Certified *(Color temperature must be Amber or less than 3000K)*



Asymmetric



Symmetric



Product Codes

Follow the steps to specify your fixture. Enter Product Code in field at top of page. Example: **LP4030KA40**

Fixture Type	Rail Size ^{1,2}	Color ³	Distribution	Rail Wall Thickness ⁴	Lens Option	Custom Bezel ⁵
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	Clear lens standard Add FRS for frosted diffused lens Add OTK for Optek-film diffused lens	ANO Rose Gold Antique Brass Dark Antique Bronze Black Anodized

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; to Specify 2.5 Watt; add "0700" to product code. EX: LP4030KA40.0700

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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*		2.5W/POD Transparent*	
3000K	145	3000K	107	3000K	181
4000K	154	4000K	114	4000K	193
5000K	176	5000K	130	5000K	220

*Contact factory for 1.5W and 2.5W

Optics				Reflector	
Beam Angle				Symmetrical	Asymmetrical
LOR defined by optics				76	74
lm	W	mA	V	Lumens output @ 4000K	
120	1.4	350	3	92	89
162	1.9	500	3	124	120
193	2.5	700	3	147	143

Remote Mounting Distance Chart

24 VDC 100W Driver	Approximate Distance From Driver to First LED at 32 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"	700mA	24"	30
	500mA	24"	37
	350mA	24"	50

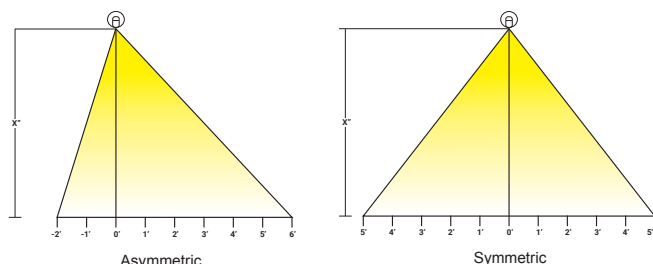
*Based on 16 AWG between LEDpods

Required Accessories

LP096WPRITRNDIM Class 2 IP67 driver, 110-277VAC to 24VDC constant voltage, 0-10 Dim
LP100WPRITRNDIM Class 2 Driver, Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty
LPNEMA2ENCL NEMA2 INDOOR enclosure for LP100WPRITRNDIM, 12" x 3.3" x 2"
LPNEMA3RENCLJR NEMA 3R Drip Proof Enclosure, 4 x 4 x 12 (IP32 Equivalent)
LPNEMA4ENCLJR NEMA4 Watertight Enclosure, 6 x 4 x 12 (IP66 Equivalent); NEMA4X
LPNEMA6PENCL Available NEMA 6P Submersible Enclosure 15" x 8" x 6" (IP67 Equivalent)

Additional driver & enclosure configurations available. Please note the KLIK UL Listing requires purchase of a remote driver and enclosure.

KLIK LEDpod™ Footcandle Chart (Represents output of ONE LEDpod)



X = Rail Height (34" Tall Handrail or 42" Tall Guardrail)

Optic Height: 34" - 2" (Handrail Diameter) = 32" (2.66")
42" - 2" (Handrail Diameter) = 40" (3.33")

			2'	1'	0	1'	2'	3'	4'	5'	6'	7'
1.5 Watt	KLIK LEDpod™ 50 350mA Asymmetric	34" Tall Handrail	0.39	0.97	4.22	5.22	3.68	2.64	1.25	0.56	0.23	0.07
		42" Tall Handrail	0.36	0.86	2.69	3.36	2.78	2.06	1.47	0.80	0.42	0.22
	KLIK LEDpod™ 50 350mA Symmetric	34" Tall Handrail	2.79	5.32	6.18	5.32	2.79	0.86	0.15	0.05	0.02	0.01
		42" Tall Handrail	2.19	3.70	3.95	3.70	2.19	1.34	0.37	0.09	0.04	0.02
2 Watt	KLIK LEDpod™ 50 500mA Asymmetric	34" Tall Handrail	0.53	1.31	5.70	7.06	4.97	3.56	1.68	0.76	0.31	0.09
		42" Tall Handrail	0.48	1.17	3.64	4.54	3.75	2.79	1.99	1.08	0.57	0.29
	KLIK LEDpod™ 50 500mA Symmetric	34" Tall Handrail	3.77	7.19	8.35	7.19	3.77	1.16	0.20	0.06	0.02	0.01
		42" Tall Handrail	2.96	5.00	5.33	5.00	2.96	1.81	0.49	0.13	0.05	0.02
2.5 Watt	KLIK LEDpod™ 50 700mA Asymmetric	34" Tall Handrail	0.66	1.64	7.13	8.83	6.21	4.45	2.10	0.95	0.39	0.12
		42" Tall Handrail	0.61	1.51	4.81	5.95	4.81	3.61	2.51	1.41	0.71	0.31
	KLIK LEDpod™ 50 700mA Symmetric	34" Tall Handrail	1.16	2.32	2.66	2.32	1.16	0.36	0.06	0.02	0.01	0.01
		42" Tall Handrail	0.86	1.51	1.51	1.51	0.86	0.36	0.16	0.06	0.02	0.01

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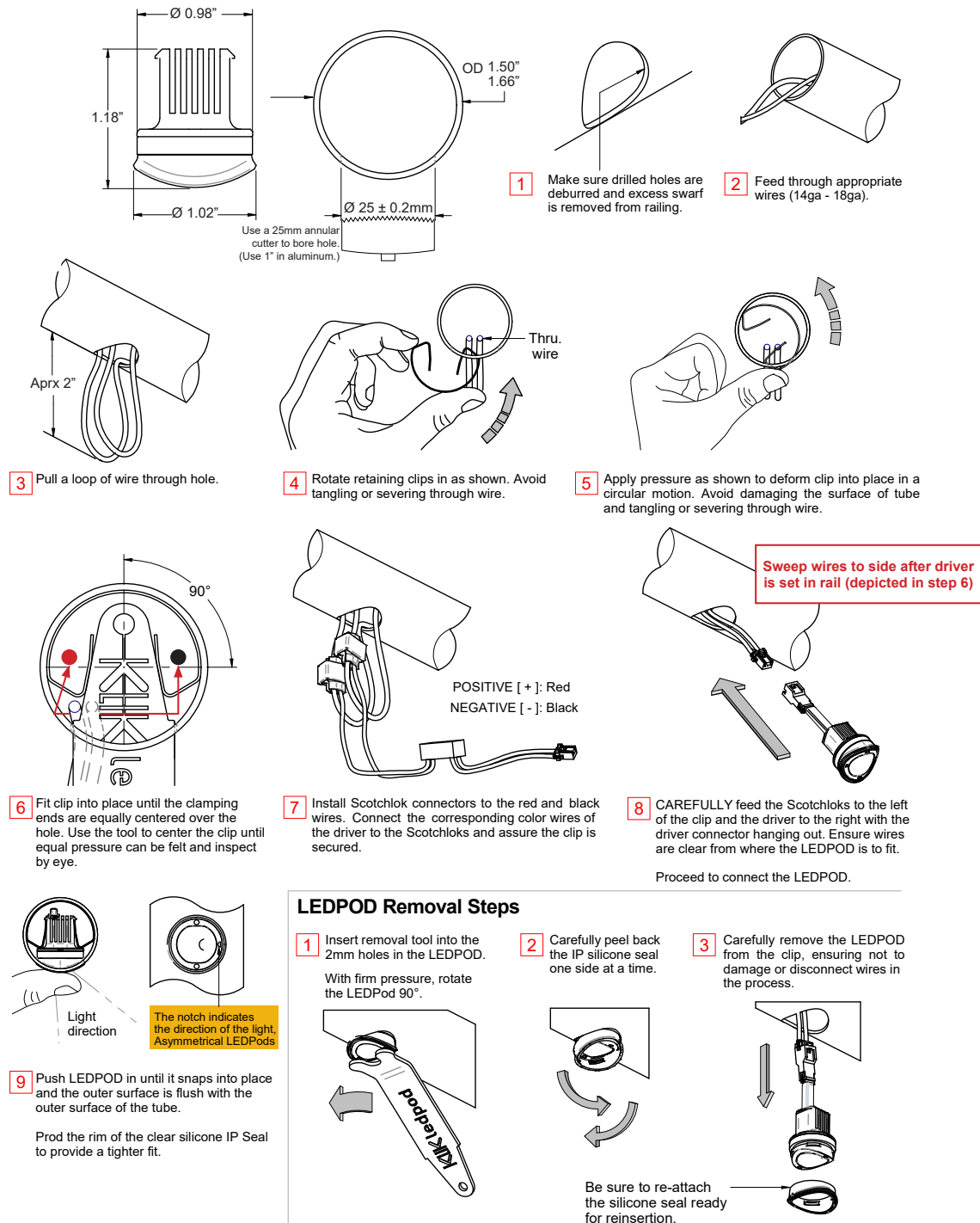
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Installation Instructions

Additional instructions may apply, consult factory.



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.

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.

Light direction

The notch indicates the direction of the light, Asymmetrical LEDPods

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

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

Proceed to connect the LEDPOD.

Project Name:

Location:

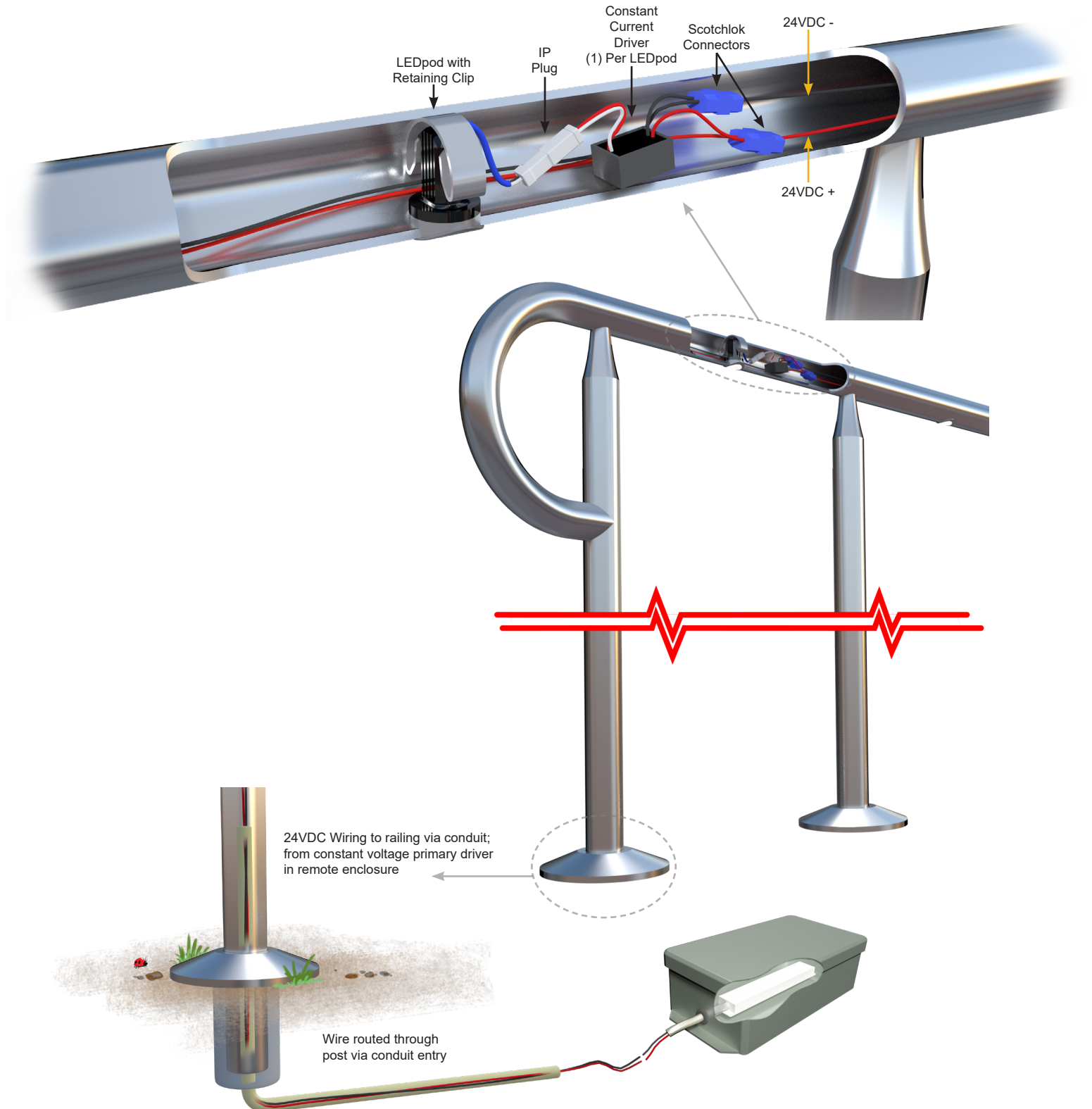
Specifier:

Rep Agency:

Fixture Type:

Product Code:

Wiring Diagram - Post Mounted



Project Name:

Location:

Specifier:

Rep Agency:

Fixture Type:

Product Code:

Wiring Diagram - Wall Mounted

