



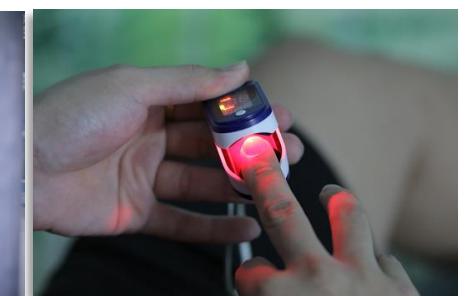
Corporate Overview

Your True Partner for LED Illumination



User Interface requirements are increasing in complexity.

We build customer-driven solutions that add value by empowering designs that shape the world around us.



Who we are

Essential Component Products.

Innovative Advanced Solutions.

Decades of Experience, since 1965

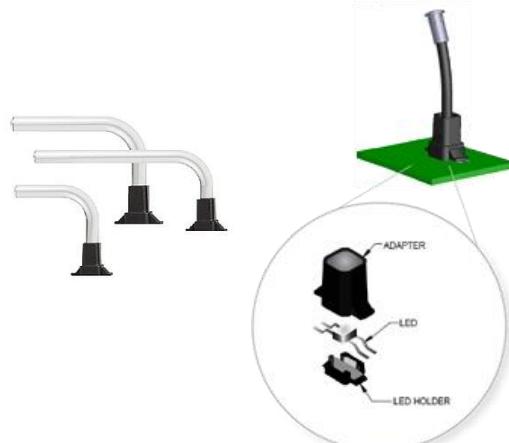
Bivar is an Electronics Manufacturer with a specialized engineering approach to better accelerate customer project development and meet the ever-present challenges of technology.

Our comprehensive selection of high-quality innovative essential component products includes LED Indication, Circuit Board Hardware, and Component Hardware. Bivar provides OEM customers an Advanced Solutions team built upon decades of design expertise and impactful problem-solving achievement.

Many customers don't even know they have a need for LED Illumination

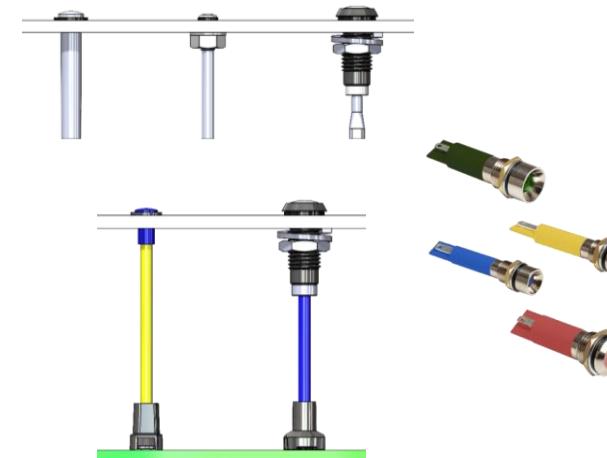
ZeroLightBleed™

Adapter channels light directly to the lens for maximum light transmission. This eliminates disruptive light bleed known to cause false readings, muted and blended colors, and unwanted glow in the enclosure. Optional built-in SMD LED delivers convenience, resource savings for procurement/assembly, and enhanced durability for high vibration applications.



Ingress Protection

Bivar IP Rated Light Pipe and Panel Mount Indicator products and systems solve problems and offer design options for strength and protection from the ingress of particulates, electrostatic discharge, vibration, and physical impact.

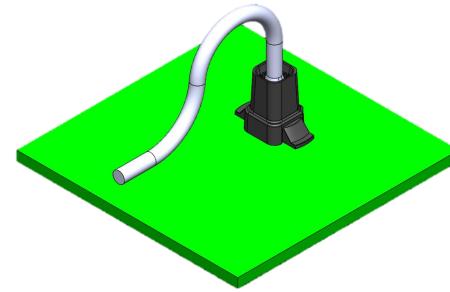


Custom Designs

Bivar Products are designed with customer-specific applications in mind. They are easily customized to meet your requirements. Whether it's dimensional adjustments, integrated assemblies, or full customization, Bivar design experts are ready to assist you with your next design project.



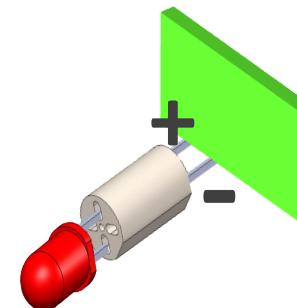
New Products



SZR Series



SGLC Series



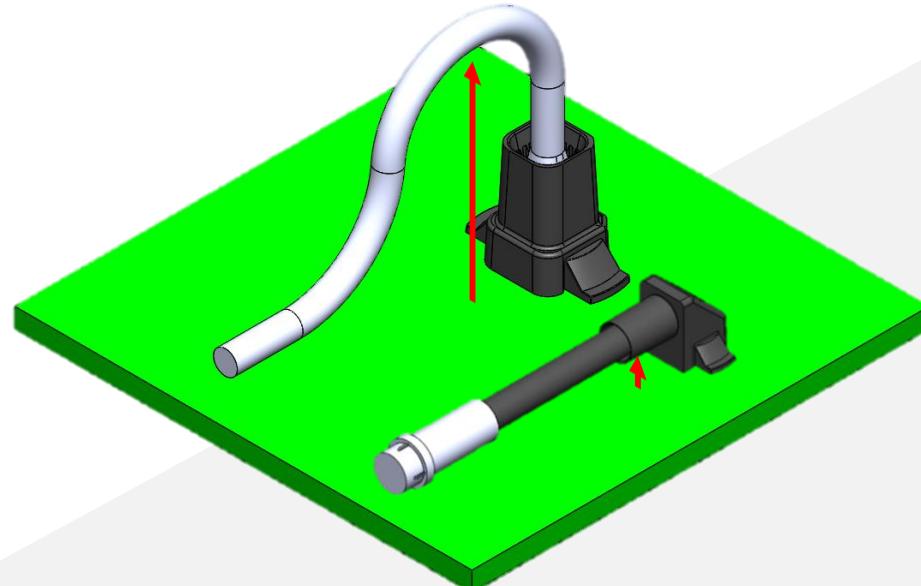
ELM-P Series

SZR

Features and Benefits

LOW PROFILE AND RIGHT ANGLE

Route light pipes in small and tight housing



ZEROLIGHT BLEED TECHNOLOGY

Prevents from light bleed to the adjacent light pipes

MECHANICAL ADVANTAGE

Gradual bend on light pipe allows a more natural light path and helps maintain efficiency

MODULAR

Different lengths, lenses, LEDs etc. are available to be used with this system

SGLC-LD LEAK DETECTOR

BIVAR

Features and Benefits

PLACEMENT

Inside portion of gasket will change color to red upon contact with moisture.

RING-SHAPED

Ring shape to sit closely around the inside diameter of the sealing gasket.

THIN DESIGN

Liquid indicator and sealing gasket will not impair maximum transmission of light.

PRE-ASSEMBLED

Liquid indicator comes pre-installed for ease of use.



MECHANICAL COMPONENT

Removes need for power at the panel, while protecting LED from electro-static discharge.

RED COLOR

Liquid indicator turns from white to red making it visually easy to identify liquid intrusion.

MATERIAL

Once turned red the liquid indicator remains red even if surface area becomes dry.

ELM-P

Features and Benefits

POLARITY IDENTIFIER

Prevents accidental placement of component with wrong polarity as the spacers cover the polarity on PCB.

ROUND-SHAPED

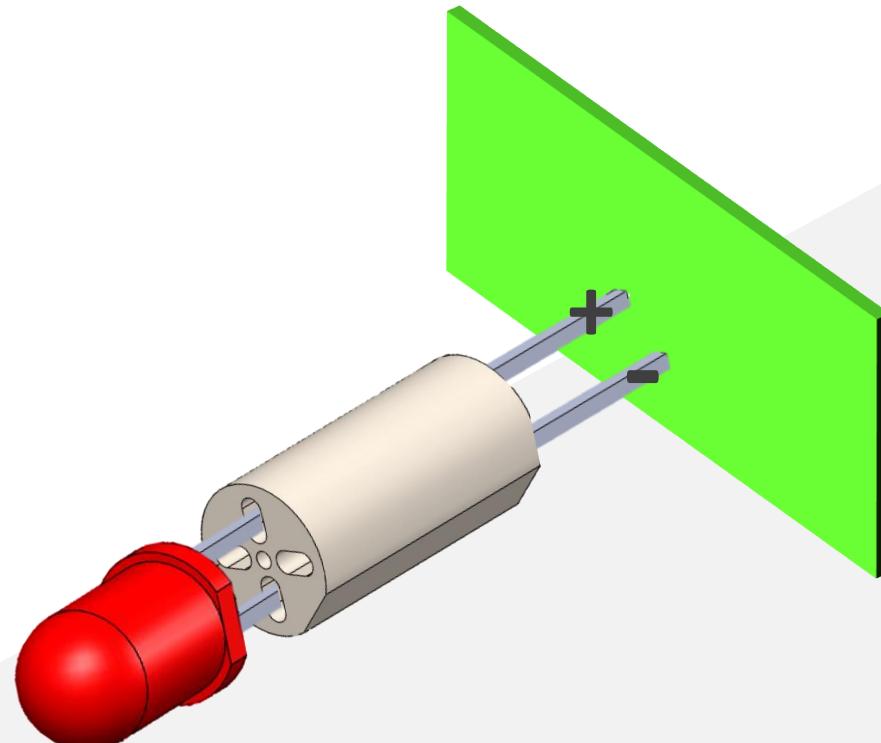
Provides more stability for the components like LEDs as their base is also round.

MULTIPLE PITCHES

Allows different components to be used.

COMPONENT PROTECTION

Protects components from damaging



SELF-RETAINING

In shock or vibration environment this feature keeps components from damaging

INSULATOR

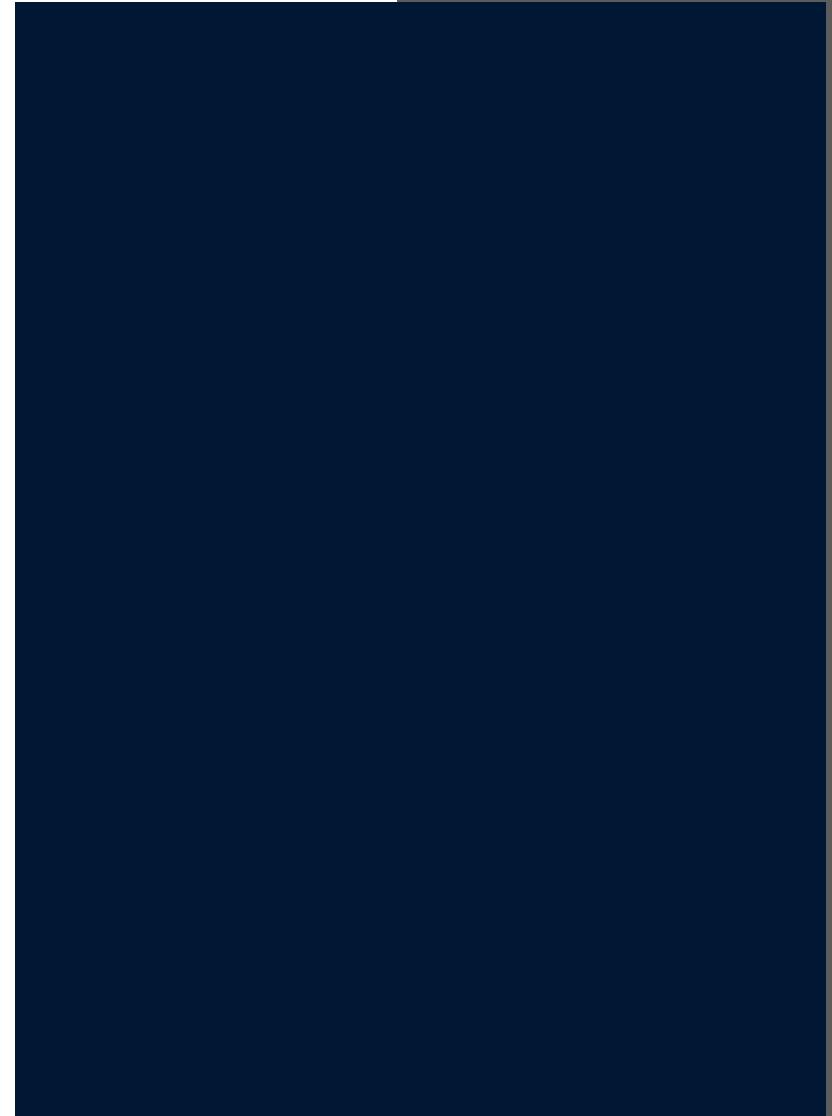
Provides insulation to exposed conductors.

MULTIPLE SIZES

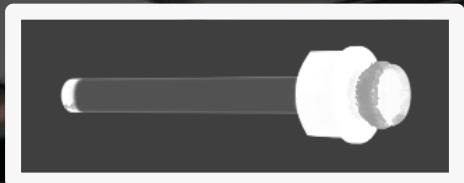
Can be used with different LEDs or alternatives (ceramic caps or other electronic components).



Application Success

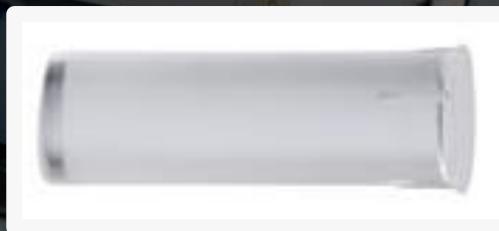


Industrial Automation Success Story



IP67 sealed Rigid Light Pipe
Part Number: PLTR5-250-PR2

Electronic sensor light pipe in an industrial control environment with IP67 requirement for dust, dirt, hosing down of equipment and design constraints



Flush Mounted Rigid Light Pipe
Part Number: PLPC3-250

Customer needed small, flush-mounted solution for membrane overlay without any bumps under their membrane.

Agriculture Success Story



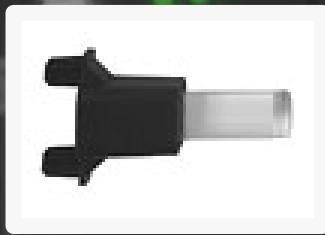
LED Indication, Rigid Light Pipe

Part Number: LPV4-0400FP

A Sprinkler control systems manufacturer required a light transmission system with zero light bleed and lowest profile light pipes.



Data Center Success Story



Board Mounted Rigid Light Pipe
Part Number: LPV2-0600DP

Customer needed a power indicator on the front panel that could work with a surface mount LED with minimum light loss in the enclosure.



Flexible Light Pipe System
Part Number: FLPV3.0-SG

UPS and Surge Protection equipment doesn't allow for a PCB near rear panel. Solution was 3" flexible light pipe to place the LED back from the panel and provide indicator impervious to ESD and EMI without fitting a nut on the already crowded panel.

Healthcare Success Story



LED Indication

Part Number: PLPC1-100

A medical device manufacturer was looking for a way to transmit light using the smallest possible rigid light pipe to show indication on the face of the panel. (0.9mm diameter and 0.1" length)



Entertainment Success Story



LED Indication

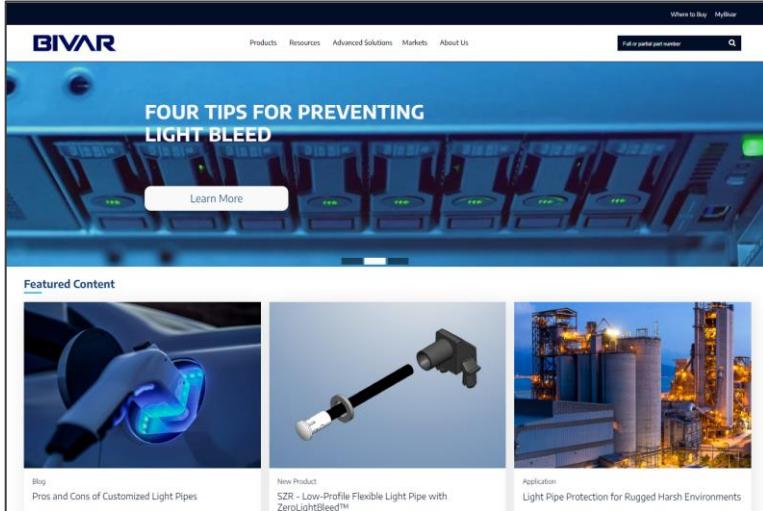
Part Number: LPV2-0550FP

LED Indication, Rigid Light Pipes

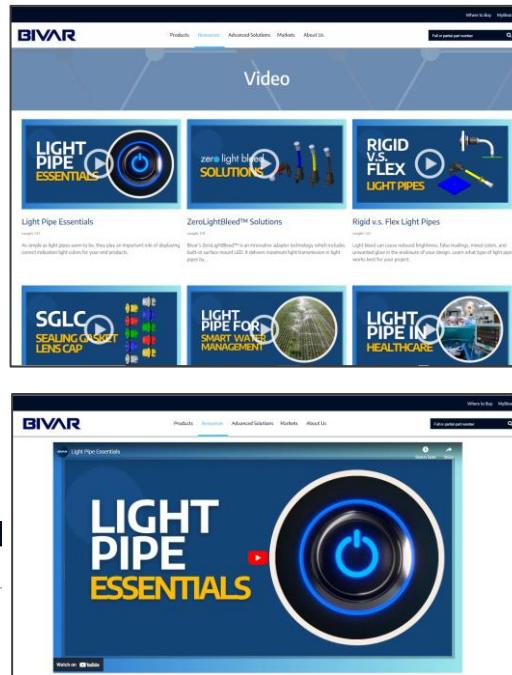
An Image Processor and Projector manufacturer was looking for a way to transmit light with zero crosstalk.

New Website

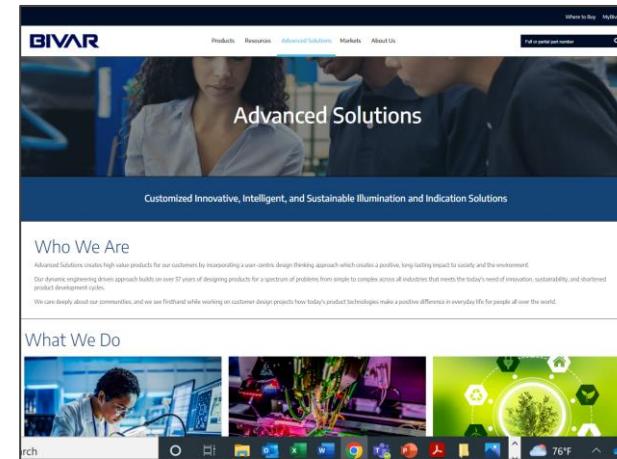
Redesigned Homepage



Resources Expansion



Advanced Solutions

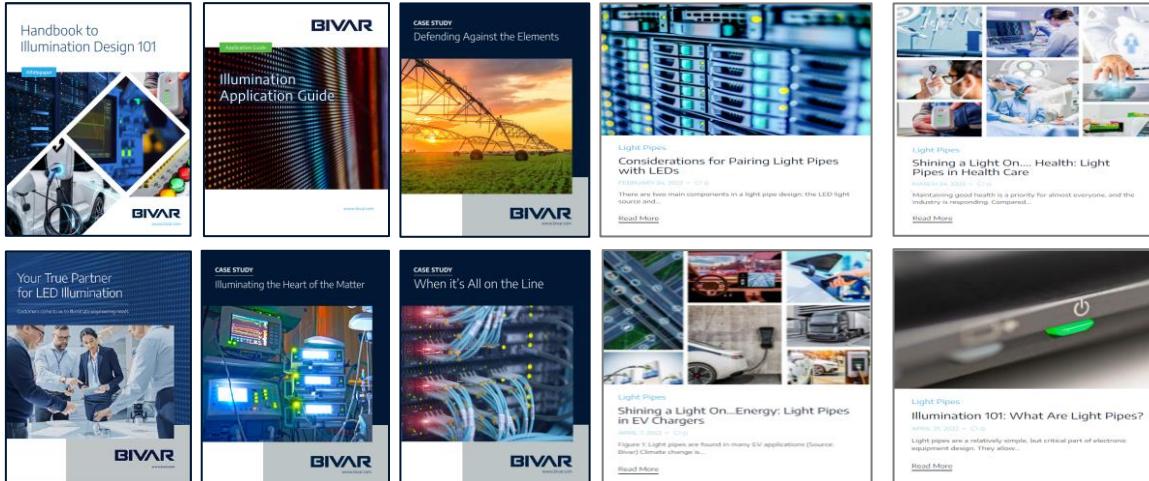


QA Compliance Forms



Educational Resources

Bivar is the place customers come to learn, source, and connect with LED Illumination design experts.



Monthly Newsletter – Content, Product Highlights



Website Revision – Resources



Blog Posts – 2X Per Month



Videos – Illumination Fundamentals



Case Study – Webpage, Links, Video Adaptation

