



LT430 Backlight Series –

Bright and uniform lighting in various sizes and colors



lighting

NEBULA LT430 Backlight Series provides sharp contrast to outline a part's shape, find edges or view openings such as drilled holes, allowing for various vision operations. High intensity and uniformity are packed into a low-profile industrial package providing optimal thermal management to the LED's. Edge to Edge lighting on select sizes provides the unique ability to mate with multiple lights and provide illumination for larger areas.



Typical Applications

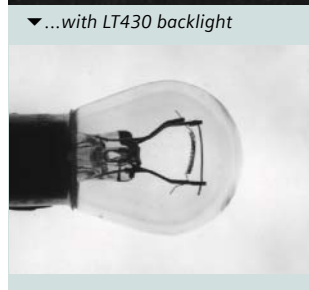
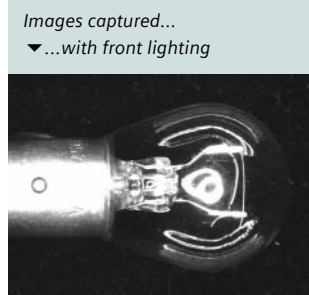
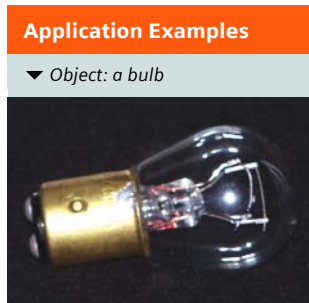
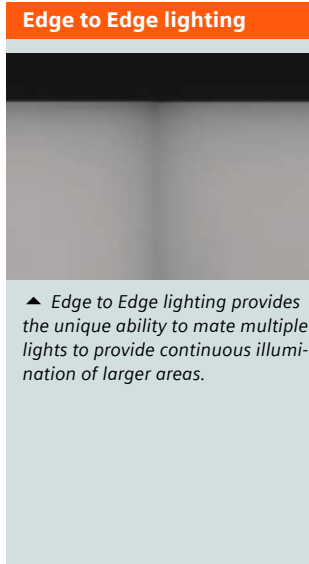
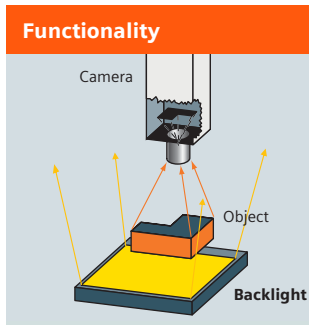
NEBULA LT430 Backlights can be used behind a part for various applications to provide identification of the following:

- Profiling / Contour / Outline of a part
- Presence / Absence of features
- Gauging
- Edge enhancement
- Object location
- Part Identification

NEBULA'S LT430 Backlights can also be used as a very uniform front light to provide diffused even illumination.

highlights

- Edge to edge lighting technology (on select models) provides the unique ability to combine multiple standard backlights to create larger illuminated areas.
- High level of uniformity for repeatable machine vision results.
- Very Thin Profile backlight solution for integral machinery packaging
- M12 connector providing additional cabling options to Siemens Power Supplies and advanced controllers.
- Various sizes and wavelengths providing a versatile product series for easy to demanding applications.
- Models for continuous or strobe duty cycles are available to support static or high speed motion applications.



Technology Overview

| LT430 | |
|------------------------------|--|
| Active area | 47mm x 59mm Edge to Edge 71mm x 88mm Edge to Edge 100mm x 100mm Edge to Edge 50mm x 200mm Edge to Edge 100mm x 200mm 150mm x 200mm 200mm x 250mm |
| Light Source | |
| ■ Type | LED |
| ■ Color | White, Red, Green, Blue, Infrared |
| ■ Delivery | Diffused |
| ■ Expected life time | 50K hours |
| Operating mode | Continuous and Strobe operation |
| Connector type | M12 Eurofast connector |
| Supply voltage | Continuous (+24VDC) Strobe (varies; dependent on model) |
| Material of housing | Aluminum |
| Ambient temperature | |
| ■ during the operating phase | 40°C (104 °F) |
| ■ during storage | 50°C (122 °F) |
| ■ Max. operating humidity | 85% non-condensing |
| Product selection code | 6GF3910-0A |



WWW.NEBULAINC.COM

The information provided in this brochure contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Subject to change without prior notice.

All product designations may be trademarks or product names of NEBULA INC. or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.