EZ-LIGHT™
Indicator Lights and Pick-to-Light Sensors
SECOND EDITION
Banner lights the way for Lean manufacturing.

A level of reliable operator guidance or simple indication. Easily installs and operates with virtually no maintenance—using as little energy as possible.
Beyond Andon: EZ-LIGHT™, the next generation of visual indication

Banner’s EZ-LIGHT™ family of products provides numerous solutions for visual process management and operator guidance. From innovative multi-color indicator lights to pick-to-light and sequence-guided assembly, error-proofing and productivity solutions, EZ-LIGHT replaces conventional indicators and devices, providing process refinement in ways never before possible. Incorporating sensor technology into operator guidance indicators ensures virtually error-free assembly and the highest levels of productivity.

**EZ-LIGHT™ solutions**

- Deliver real-time operational status indication for workers and supervisors
- Eliminate false readings from stray light; always appear gray when off
- Prompt operators and guide sequential part selection
- Verify correct action with sensor or push-button indication
- Offer point sensing or arrays for wide area pick-to-light
- Feature compatibility with PLC or other logic-level control outputs
- Install quickly and easily with pre-wired or quick-disconnect options
- Promote high visibility from all angles
- Reduce costs, defects and Muda (waste)
- Improve plant flow, productivity and efficiency
A complete range of models and styles

- Smart General-Purpose indicators displaying up to three colors in one device
- Multi-Function indicators displaying up to five colors with solid, flashing or sequenced flashing cycles
- Sensor Emulator indicators displaying sensor status where sensor visibility is obscured or limited
- Segmented indicators delivering simultaneous one, two, three or four color display for multiple status indication
- Daylight Visible indicators generating intense levels of light output for outdoor applications or areas of high ambient light
- Audible indicators combining visible light indication with audio alerts
- Pick-to-Light indicators and sensors reducing assembly and picking errors, improving product quality while reducing costs

Specify your EZ-LIGHT™ in 4 Easy Steps

1. Choose your housing
2. Choose color, function, voltage

Mounting solutions for any application

- Installs quickly with a single drilled hole and many mounting options
- Includes models with 22 or 30 mm threaded base for panel mounting
- Features mounting hubs for both EMT and gas/water pipe mounting (K50L model)
- Offers models and accessories for machine- and wall-mounting, as well as ceiling suspension
Robust, durable, green and Lean design

- Completely self-contained operation—no controller needed
- Extremely long-lasting LED technology providing >100,000 hours (11 years continuous) working life
- Very low power consumption: <1W for most DC models, <2W for AC models—compare to competitive units that consume up to 15W
- Ergonomic, lean shape that sheds debris and moisture
- No hook hazards for moving equipment and personnel—unlike conventional stack lights
- Robust IP67/IP69K-rated, water- and oil-tight industrial housings for direct machine mounting
- Rugged, compact design that is cost-effective and easy-to-install
- Shock, vibration and impact resistant
- Compatibility with AS-i modules and fieldbus splitter boxes

3. Choose input type
4. Choose your connection

NPN/PNP

- OR -

85-130V ac

Numerous color display options

- Single devices displaying up to 5 colors each—replacing multiple indicators to save panel space and costs
- Models with 31 functions for steady, flashing or alternating colors
- Excellent but non-aggressive light brilliance and visibility for operators
# EZ-LIGHT™ Operator Indicator Lights

<table>
<thead>
<tr>
<th>Housing</th>
<th>K80L</th>
<th>K50L</th>
<th>T30</th>
<th>M18</th>
<th>K30L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>50 mm dome or flat profile</td>
<td>50 mm dome or flat profile</td>
<td>30 mm T-style</td>
<td>18 mm barrel</td>
<td>30 mm dome</td>
</tr>
<tr>
<td>Maximum Colors in One Housing</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Standard Colors</td>
<td>● ● ● ● ○</td>
<td>● ● ● ● ○</td>
<td>● ● ● ● ○</td>
<td>● ● ● ● ○</td>
<td>● ● ● ● ○</td>
</tr>
</tbody>
</table>

## Functions

- **General Purpose**
  - ON steady
- **Sensor Emulator**
  - Remote indicator, ON steady
- **Multi-Function**
  - ON steady, Flashing, Alternating
- **Audible**
  - Steady (75 dB)
  - Loud steady (95 dB)
  - Pulsed (75 dB)
- **Segmented**
  - Up to 4 segments

## Specifications

<table>
<thead>
<tr>
<th>Power Requirement</th>
<th>18 to 30V dc or 85 to 130V ac</th>
<th>18 to 30V dc or 85 to 130V ac</th>
<th>10 to 30V dc</th>
<th>10 to 30V dc</th>
<th>10 to 30V dc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>DC: NPN or PNP AC: 85 to 130V ac</td>
<td>DC: NPN or PNP AC: 85 to 130V ac</td>
<td>NPN or PNP</td>
<td>NPN or PNP</td>
<td>NPN or PNP</td>
</tr>
<tr>
<td>Connection (depending on number of colors and functionality)</td>
<td>4-, 5- or 8-pin integral Euro QD</td>
<td>4-, 5- or 8-pin integral Euro QD</td>
<td>4- or 5-pin integral Euro QD</td>
<td>4- or 5-pin integral Euro QD</td>
<td>4-pin integral Euro QD</td>
</tr>
<tr>
<td></td>
<td>4-, 5- or 8-pin pigtail Euro QD</td>
<td>4-, 5- or 8-pin pigtail Euro QD</td>
<td>4- or 5-pin pigtail Euro QD</td>
<td>4- or 5-pin pigtail Euro QD</td>
<td>4-pin pigtail Euro QD</td>
</tr>
<tr>
<td></td>
<td>Terminal-wired</td>
<td>2 m attached cable</td>
<td>2 m attached cable</td>
<td>2 m attached cable</td>
<td>2 m attached cable</td>
</tr>
<tr>
<td>Mounting</td>
<td>Flat or DIN-mount</td>
<td>30 mm threaded base</td>
<td>30 mm threaded nose</td>
<td>18 mm threaded barrel</td>
<td>22 mm threaded base</td>
</tr>
<tr>
<td>Construction</td>
<td>Thermoplastic</td>
<td>Thermoplastic</td>
<td>Thermoplastic</td>
<td>Nickel-plated brass</td>
<td>Thermoplastic</td>
</tr>
<tr>
<td>Rating</td>
<td>Audible: IP50 All others: IP67</td>
<td>Audible: IP50 All others: IP67</td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Audible: -20° to +50° C All others: -40° to +50° C</td>
<td>Audible: -20° to +50° C All others: -40° to +50° C</td>
<td>-40° to +50° C</td>
<td>-40° to +50° C</td>
<td>-40° to +50° C</td>
</tr>
</tbody>
</table>

More information online at [bannerengineering.com](http://bannerengineering.com)
### EZ-LIGHT™ Specialty Indicator Lights

<table>
<thead>
<tr>
<th></th>
<th>K80L</th>
<th>K80L/K50L</th>
<th>K50LD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>50 mm flat profile</td>
<td>50 mm dome</td>
<td>50 mm flat profile</td>
</tr>
<tr>
<td><strong>Segments</strong></td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Audible</strong></td>
<td>Steady (75 dB)</td>
<td>Steady (75 dB)</td>
<td>Steady (75 dB)</td>
</tr>
<tr>
<td><strong>Daylight Visible</strong></td>
<td>Intense levels of light output for outdoor applications</td>
<td>Intense levels of light output for outdoor applications</td>
<td>Intense levels of light output for outdoor applications</td>
</tr>
<tr>
<td><strong>General Purpose</strong></td>
<td>ON steady</td>
<td>ON steady</td>
<td>ON steady</td>
</tr>
<tr>
<td><strong>Sensor Emulator</strong></td>
<td>Remote indicator, ON steady</td>
<td>Remote indicator, ON steady</td>
<td>Remote indicator, ON steady</td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td>18 to 30V dc</td>
<td>18 to 30V dc</td>
<td>18 to 30V dc</td>
</tr>
<tr>
<td><strong>Input DC</strong></td>
<td>NPN or PNP</td>
<td>NPN or PNP</td>
<td>NPN or PNP</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>4-, 5-, or 8-pin integral Euro QD</td>
<td>4-, 5-, or 8-pin integral Euro QD</td>
<td>4-pin integral Euro QD</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Flat or DIN-mount</td>
<td>Flat or DIN-mount</td>
<td>30 mm threaded base</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Thermoplastic</td>
<td>Thermoplastic</td>
<td>Thermoplastic</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>Audible: -20˚ to +50˚ C</td>
<td>Audible: -40˚ to +50˚ C</td>
<td>-40˚ to +50˚ C</td>
</tr>
</tbody>
</table>

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More information online at [bannerengineering.com](http://bannerengineering.com)
<table>
<thead>
<tr>
<th>Housing</th>
<th>Description</th>
<th>Job Light</th>
<th>Maximum Sensing Range</th>
<th>Minimum Object Detection Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Retro: 2 m</td>
<td>Fixed-Field: 25, 50, 100 mm</td>
<td>Retro: 51 to 100 mm</td>
</tr>
<tr>
<td>K50</td>
<td>50 mm dome light indicator with sensor or push button</td>
<td>Green</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>K80</td>
<td>50 mm dome light indicator with push button</td>
<td>Green</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>VTB</td>
<td>Ultra-bright optical touch button</td>
<td>Green</td>
<td>—</td>
<td>Retro: 51 to 100 mm</td>
</tr>
<tr>
<td>PVD</td>
<td>One-component light array</td>
<td>Green</td>
<td>Opposed: 2 m</td>
<td>Diffuse: 55 mm</td>
</tr>
<tr>
<td>PVA</td>
<td>Two-component light array</td>
<td>Green</td>
<td>Opposed: 2 m</td>
<td>35 mm</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Power Requirement</th>
<th>Output Configuration</th>
<th>Connection</th>
<th>Mounting</th>
<th>Construction</th>
<th>Rating</th>
<th>Operating Temperature</th>
<th>Data Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 to 30V dc</td>
<td>One NPN or PNP &amp; NO or NC, depending on model</td>
<td>4- or 5-pin integral Euro QD</td>
<td>30 mm threaded base</td>
<td>Polycarbonate &amp; nylon</td>
<td>IP69K (depending on installation)</td>
<td>-40° to +50° C</td>
<td>2-color: 126441 3-color: 137551</td>
</tr>
<tr>
<td>12 to 30V dc</td>
<td>One NPN or PNP &amp; NO or NC, depending on model</td>
<td>4- or 5-pin integral Euro QD</td>
<td>30 mm threaded base</td>
<td>Polycarbonate &amp; nylon</td>
<td>IP69K (depending on installation)</td>
<td>-40° to +50° C</td>
<td>2-color: 126441 3-color: 137551</td>
</tr>
<tr>
<td>12 to 30V dc</td>
<td>One NPN or PNP, depending on model</td>
<td>4- or 5-pin integral Euro QD</td>
<td>30 mm threaded base</td>
<td>Black polysulfone or red polycarbonate with white polycarbonate base</td>
<td>IP66; NEMA 4X</td>
<td>-20° to +50° C</td>
<td>67570</td>
</tr>
<tr>
<td>12 to 30V dc</td>
<td>One user-selectable PNP or NPN</td>
<td>5-pin pigtail Euro QD</td>
<td>Flat mount</td>
<td>Black painted aluminum</td>
<td>IP62; NEMA 2</td>
<td>0° to +50° C</td>
<td>113230</td>
</tr>
<tr>
<td>12 to 30V dc</td>
<td>One NPN or PNP, depending on model; programmable for light or dark operate</td>
<td>4-pin pigtail Euro QD</td>
<td>Flat mount</td>
<td>Black anodized aluminum</td>
<td>IP62; NEMA 2</td>
<td>0° to +50° C</td>
<td>52088</td>
</tr>
</tbody>
</table>

More information online at [bannerengineering.com](http://bannerengineering.com)
## EZ-LIGHT™ Accessories

### Standoff Pipe and Cabinet Mounting

**SA-M30E12**
Thermoplastic Acetal adapter and cover

**SOP-E12-150SS**
(150 mm) stainless steel pipe

**SA-E12M30**
Thermoplastic Acetal mounting base

**SA-M30M30-75**
Thermoplastic Acetal standoff with 30 mm mounting base for cabinet mounting or use with most 30 mm brackets

**SA-30RL55X93**
Zinc coated, oversized right-angle legend plate for identification labels

**K50LD Sun Shield**
Thermoplastic Polyester sun shield

### Brackets

#### Right-Angle

**SMB8MM**
M18

**SMB22A**
T30

**SMB830**
K30L

**SMB8RAV**
K30L

#### Swivel Brackets

**SMB18A**
M18

**SMB30A**
M18

**SMB30RA**
K50L

**SMB30RAV**
K50L

### Adapter (22.5 to 18 mm)

**SA-2218**
M18

### DIN-Rail

**SMBDX80DIN**
K80L

### Quick-Disconnect (QD) Cordsets

#### 4-Pin Euro-Style Splitter

<table>
<thead>
<tr>
<th>Model</th>
<th>Branches (Female)</th>
<th>Trunk (Male)</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSB-M1240M1240</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>CSB-M1241M1241</td>
<td>2 x 0.3 m</td>
<td>0.3 m</td>
<td></td>
</tr>
<tr>
<td>CSB-M1248M1241</td>
<td>2 x 0.3 m</td>
<td>2.5 m</td>
<td></td>
</tr>
</tbody>
</table>

**Used with:**
- Sensor emulator

#### 4-Pin Euro-Style

<table>
<thead>
<tr>
<th>Model*</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQDC-406</td>
<td>2 m</td>
</tr>
<tr>
<td>MQDC-415</td>
<td>5 m</td>
</tr>
<tr>
<td>MQDC-430</td>
<td>9 m</td>
</tr>
</tbody>
</table>

**Used with:**
- General purpose (DC)
- Sensor emulator
- Daylight visible

#### 5-Pin Euro-Style

<table>
<thead>
<tr>
<th>Model*</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQDC1-506</td>
<td>2 m</td>
</tr>
<tr>
<td>MQDC1-515</td>
<td>5 m</td>
</tr>
<tr>
<td>MQDC1-530</td>
<td>9 m</td>
</tr>
</tbody>
</table>

**Used with:**
- 3- or 4-color, multi-function
- Segmented
- Audible

#### 8-Pin Euro-Style

<table>
<thead>
<tr>
<th>Model*</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQDC2S-806</td>
<td>2 m</td>
</tr>
<tr>
<td>MQDC2S-815</td>
<td>5 m</td>
</tr>
<tr>
<td>MQDC2S-830</td>
<td>9 m</td>
</tr>
</tbody>
</table>

**Used with:**
- 5-color, multi-function

#### 5-Pin Micro-Style

<table>
<thead>
<tr>
<th>Model*</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQVR3S-506</td>
<td>2 m</td>
</tr>
<tr>
<td>MQVR3S-515</td>
<td>5 m</td>
</tr>
<tr>
<td>MQVR3S-530</td>
<td>9 m</td>
</tr>
</tbody>
</table>

**Used with:**
- General purpose (AC)

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More information online at [bannerengineering.com](http://bannerengineering.com)

*For a right-angle cordset, add RA to the model number (example, MQDC-406RA).*
EZ-LIGHT™ Model Guide

Specify your model in 4 easy steps:
1. Choose your housing
2. Choose your color, function and voltage
3. Choose your input type
4. Choose your connection

General Purpose: DC Models

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y</td>
<td></td>
<td></td>
<td></td>
<td>P</td>
<td>QP</td>
</tr>
</tbody>
</table>

| M18 | T18 | T30 | K30L | K50L | K80L | T8L (1 or 2 color only) |

- G = Green
- R = Red
- Y = Yellow
- B = Blue
- W = White
- X = No color

P = PNP (Sourcing)
N = NPN (Sinking)

Blank = K80L: Terminal-wired
All others: 2 m

Q = 4-pin Euro integral QD (except T8L)
QP = 4-pin Euro pigtail QD

General Purpose: AC Models

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>Voltage</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y</td>
<td></td>
<td></td>
<td></td>
<td>A120</td>
<td>Q</td>
</tr>
</tbody>
</table>

| K50L | K80L |

- G = Green
- R = Red
- Y = Yellow
- B = Blue
- W = White

Blank = 2 m
Q = 5-pin Micro integral QD

Multi-Function: 3 Color

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>P</td>
<td>QP</td>
</tr>
</tbody>
</table>

| M18 | T18 | K30L | K50L | K80L |

- 2 = Multi-Function

P = PNP (Sourcing)
N = NPN (Sinking)

Blank = K80L: Terminal-wired
All others: 2 m

Q = 5-pin Euro integral QD
QP = 5-pin Euro pigtail QD

Multi-Function: 4 Color

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y B</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>P</td>
<td>QP</td>
<td></td>
</tr>
</tbody>
</table>

| K50L | K90L |

- 4 = Multi-Function

P = PNP (Sourcing)
N = NPN (Sinking)

Blank = K80L: Terminal-wired
K50L: 2 m

Q = 5-pin Euro integral QD
QP = 5-pin Euro pigtail QD

Multi-Function: 5 Color

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*†</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>C4</th>
<th>C5</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y B W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>P</td>
<td>QP</td>
</tr>
</tbody>
</table>

| K50L | K80L |

- 2 = Multi-Function

P = PNP (Sourcing)
N = NPN (Sinking)

Blank = K80L: Terminal-wired
K50L: 2 m

Q = 8-pin Euro integral QD
QP = 8-pin Euro pigtail QD

Sensor Emulator: 2 Color

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*</th>
<th>C1</th>
<th>C2</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>T8L</td>
<td>G Y X7</td>
<td></td>
<td></td>
<td>Sensor Emulator</td>
<td>P</td>
<td>QP</td>
</tr>
</tbody>
</table>

| T8L | M18 | T18 | T30 | K30L | K50L | K80L |

- X7 = Sensor Emulator

P = PNP (Sourcing)
N = NPN (Sinking)

Blank = K80L: Terminal-wired
All others: 2 m

Q = 4-pin Euro integral QD (except T8L)
QP = 4-pin Euro pigtail QD

*Number of colors are determined by C1, C2, C3, C4, C5 specified in model guides.
General-purpose models (DC only): For less than 3 colors, use X as a model placeholder (example, K50L6XXPQP for green only).
†LED function of ON steady, flashing or alternating (depending on hookup).

More information online at bannerengineering.com
EZ-LIGHT™ Hookup Diagrams

**HK01** • General Purpose (DC)
- Daylight Visible

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color</th>
<th>Audible</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R</td>
<td>A2</td>
<td>P</td>
<td>QP</td>
<td>5-Pin Euro</td>
</tr>
</tbody>
</table>

*For single color models with full brightness, use X as a model placeholder (example, K50LXGXXYPQ = ).

**HK02** • General Purpose (AC)

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color</th>
<th>Audible</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G Y R</td>
<td>A2</td>
<td>P</td>
<td>QP</td>
<td>4-Pin Euro</td>
</tr>
</tbody>
</table>

**HK03** • 3- or 4-color, Multi-Function
- Segmented
- Audible

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color</th>
<th>Audible</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y</td>
<td>A2</td>
<td>P</td>
<td>QP</td>
<td>4-Pin Euro</td>
</tr>
</tbody>
</table>

**HK04** • 5-color, Multi-Function

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color*</th>
<th>Audible</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>W B G Y</td>
<td>A2</td>
<td>P</td>
<td>QP</td>
<td>5-Pin Euro</td>
</tr>
</tbody>
</table>

**HK05** • Sensor Emulator

<table>
<thead>
<tr>
<th>Housing</th>
<th>Color</th>
<th>Audible</th>
<th>Function</th>
<th>Input</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>K50L</td>
<td>G R Y</td>
<td>A2</td>
<td>P</td>
<td>QP</td>
<td>4-Pin Euro</td>
</tr>
</tbody>
</table>

*For single color models with intensity control of one color, use same color for C1, C2, C3 (example, K50LDGGGPQP).

Note: Many other colors are available.
From simple to advanced, Banner solves more applications in your plant!

Sensors
- Presence
- Absence
- Inspection
- Gating
- Counting
- Measurement
- Position

Vision
- Pattern Recognition
- Complex Part Inspection
- Multi-Component Gauging
- Part ID/Orientation
- Assembly Verification
- Print Verification
- Traceability (Bar Code and Text)

Wireless
- Process Control & Monitoring
- Factory Automation
- Agriculture & Water Management
- Traffic Monitoring & Control
- Commercial & Consumer Monitoring

Indicator Lights
- Bin & Part Picking
- Error Proofing
- Pick-to-Light & Call for Parts
- Visual & Audible Indication
- Operator Guidance
- Visual Management
- Andon Indication
- Pilot & Stack Light Replacement

Machine Safety
- Safety Light Screens
- Fiber Optic Safety Systems
- Safety Modules & Controllers
- Emergency Stop Devices
- Safety Interlocks
- Ergonomic Two-Hand Control & Run Bars

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