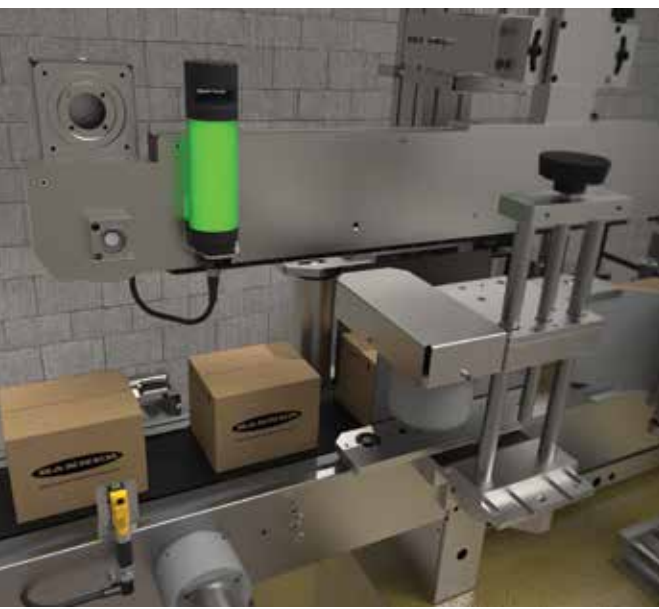
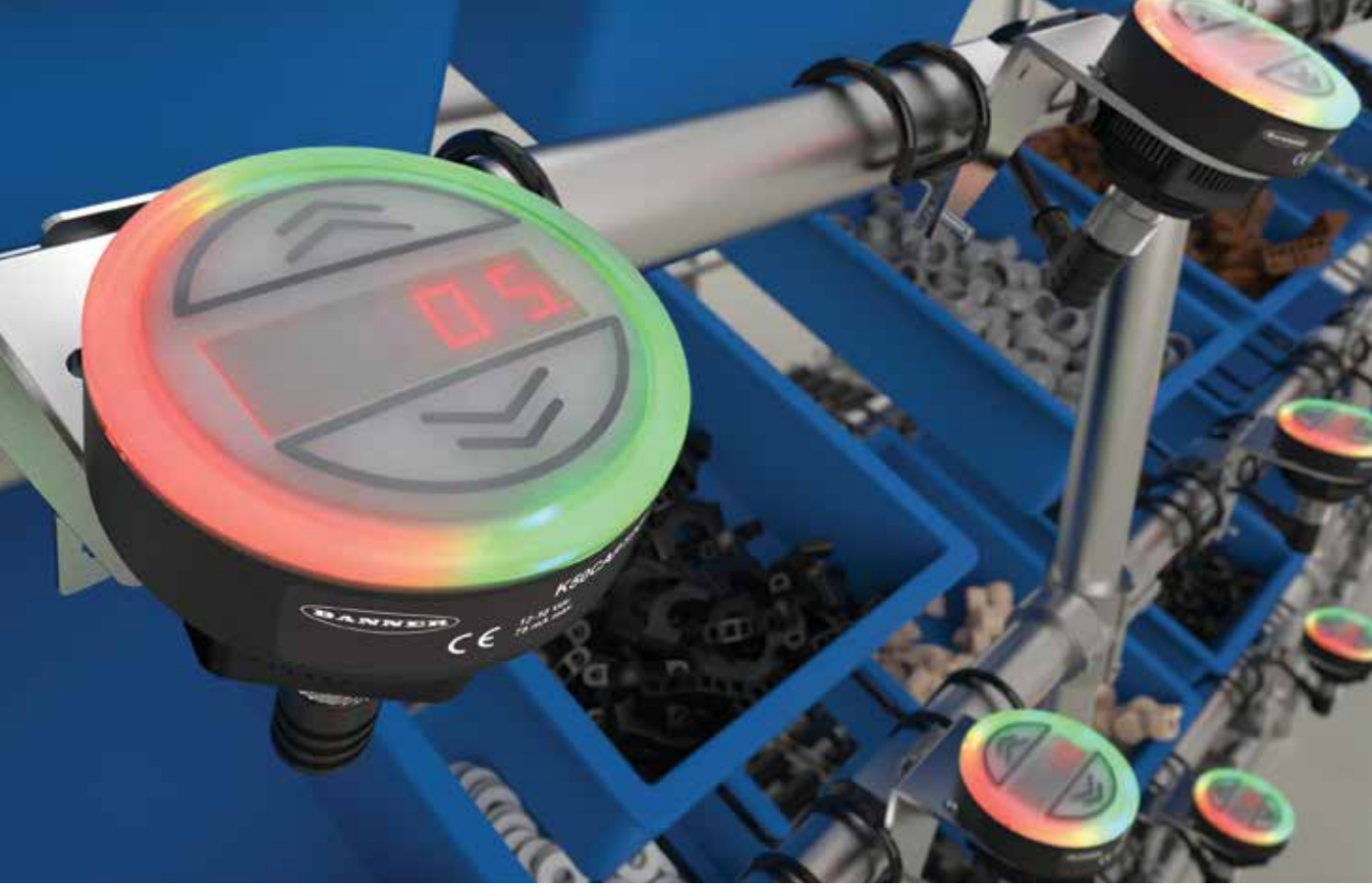


# Lighting and Indication Selection Guide





# Pro Products

The Pro Series programmable multicolor LED devices from Banner Engineering offer limitless possibilities for advanced indication of dynamic machine states, operator interaction, and process status. The Pro Series is ideal if you are looking for advanced capabilities or flexibility beyond a traditional factory indicator. Whether you have discrete or protocol controlled devices, the Pro Series use Banner's Pro Editor Software, IO-Link, or PICK-IQ™ for real-time communication and visualization across your factory.



### Software for Programmable Devices

Banner's Pro Editor Software allows users to program device status, colors, animations, and much more for control via discrete inputs, bringing intuitive indication and interaction to the visual factory. Programmable RGB devices make supply chains more efficient by allowing you to standardize on one model that can be customized as needed. The application-based interface makes it easy to configure a device for a wide range of applications such as displaying machine warm-up time, indicating unique steps in an assembly process, showing distance and position information, and communicating multiple machine states.



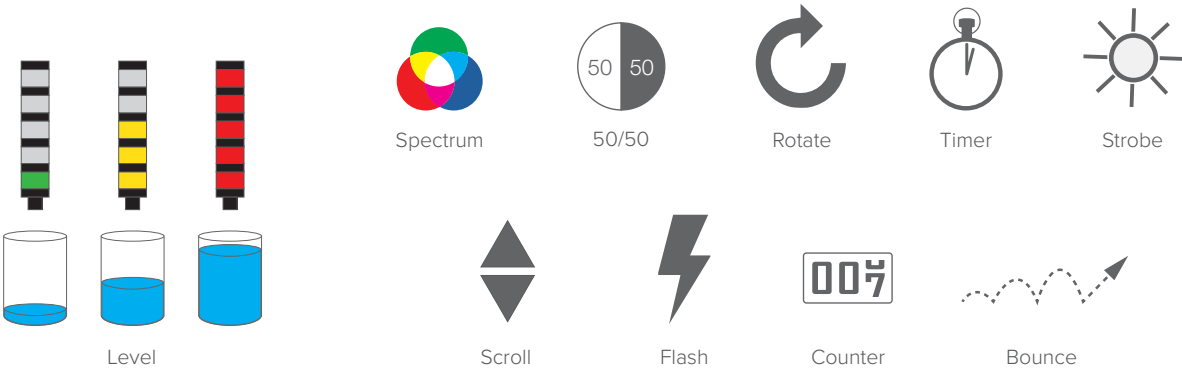
**PRO** allows simple control via discrete inputs with advanced options, configurable colors, animations, and much more.

**IO-Link®** is an open standard serial communication protocol that allows for the bi-directional exchange of data from IO-Link supported devices that are also connected through a master.

**PICK-IQ®** is a purpose-built, Modbus-compatible serial bus protocol that uses a Common ID to reduce the typical latency that results from polling multiple devices.

|          | S22 Pro Indicator and Touch Button | K30 Pro Indicator, Optical, and Touch | K50 Pro Indicator | K50 Pro Touch and Optical | K90 Pro |
|----------|------------------------------------|---------------------------------------|-------------------|---------------------------|---------|
| PRO      | ✓                                  | ✓                                     | ✓                 | ✓                         | ✓       |
| IO-Link® |                                    | ✓                                     | ✓                 | ✓                         | ✓       |
| PICK-IQ® |                                    | ✓                                     | ✓                 | ✓                         |         |

### Modes and Animations



|                      | K100 Pro | CL50 Pro | TL50 Pro | TL70 Pro | TLF100 Pro | WLS15 Pro | WLS27 Pro | WLS28 Pro | PTL110 |
|----------------------|----------|----------|----------|----------|------------|-----------|-----------|-----------|--------|
| PRO (DC models only) | ✓        | ✓        | ✓        | ✓        | ✓          | ✓         | ✓         | ✓         |        |
| IO-Link®             |          | ✓        | ✓        | ✓        | ✓          | ✓         | ✓         | ✓         |        |
| PICK-IQ®             |          |          |          |          |            | ✓         |           |           | ✓      |



# LED Task Lighting

## Selection Guide



|                                |                  |                                                                                                                                                                                                                                                                   |                                                                                                                                                                            |                                                                                                                                                                            |             |             |               |
|--------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|---------------|
| Family Name                    | S15WL            | WLS15                                                                                                                                                                                                                                                             | WLS27                                                                                                                                                                      | WLS28-2                                                                                                                                                                    | WLB32       | WLS70       | WLB72         |
| Length (mm)                    | 28               | 220 to 1200                                                                                                                                                                                                                                                       | 145 to 1130                                                                                                                                                                | 145 to 1130                                                                                                                                                                | 285 to 1130 | 300 to 1200 | 1200 and 2400 |
| AC/DC                          | DC               | DC                                                                                                                                                                                                                                                                | DC                                                                                                                                                                         | DC                                                                                                                                                                         | AC and DC   | AC and DC   | AC            |
| White Lumens per Foot (300 mm) | 55               | 350 standard<br>750 high intensity                                                                                                                                                                                                                                | 800                                                                                                                                                                        | 800                                                                                                                                                                        | 750         | 1350        | 1700          |
| IP Rating                      | IP65, IP67, IP68 | IP66, IP67                                                                                                                                                                                                                                                        | IP66, IP67, IP69K                                                                                                                                                          | Unsealed: IP50<br>Sealed: IP67, IP69K                                                                                                                                      | IP50        | IP65        | IP20          |
| Programmable                   |                  | <br><br> | <br> | <br> |             |             |               |
| Multicolor Options             |                  | ✓                                                                                                                                                                                                                                                                 | ✓                                                                                                                                                                          | ✓                                                                                                                                                                          |             |             |               |



|              |                    |                 |                       |             |                    |                                                        |
|--------------|--------------------|-----------------|-----------------------|-------------|--------------------|--------------------------------------------------------|
| WLB92        | WLC60              | WLH60 High Temp | WL50S                 | WL50-3      | WLC90              | WLA-2                                                  |
| 550 and 1100 | 340 and 640        | 340 and 640     | ø 50                  | ø 50        | 89 x 91            | 105 x 180 to 360 x 180                                 |
| AC and DC    | DC                 | DC              | DC                    | DC          | DC                 | DC                                                     |
| 1755         | 1300               | 1150            | 295                   | 300         | 700                | 1025 per panel/size                                    |
| IP40         | IP68, IP68g, IP69K | IP68, IP69K     | IP67, IP69K           | IP67, IP69K | IP68, IP68g, IP69K | Sealed: IP67, IP69K<br>Encapsulated: IP67, IP68, IP69K |
|              |                    |                 |                       |             |                    |                                                        |
|              |                    |                 | (red, green, or blue) |             |                    |                                                        |



Programmable LED indicators offer multiple color choices in a single housing

# Tower Lights

## Selection Guide



| Family Name                 | TL15             | WLS27                                                                               | TL30 Series | CL50 Series                                                                           | TL50 Series                                                                           |
|-----------------------------|------------------|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Segment Diameter (mm)       | 15               | 27                                                                                  | 30          | 50                                                                                    | 50                                                                                    |
| Mounting Hole Diameter (mm) | —                | —                                                                                   | 22          | 30                                                                                    | 30                                                                                    |
| AC/DC                       | DC               | DC                                                                                  | DC          | AC or DC                                                                              | AC or DC                                                                              |
| IP Rating                   | IP66, IP67, IP68 | IP66, IP67, IP69K                                                                   | IP65        | IP67                                                                                  | IP67                                                                                  |
| Programmable                |                  |  |             |  |  |
| Multicolor Options          |                  | ✓                                                                                   |             | ✓                                                                                     | ✓                                                                                     |
| Audible                     | ✓                |                                                                                     | ✓           | ✓                                                                                     | ✓                                                                                     |
| Daylight Visible            |                  |                                                                                     |             |                                                                                       | ✓                                                                                     |
| Wireless                    |                  |                                                                                     |             |                                                                                       |                                                                                       |
| Modular Construction        | ✓                |                                                                                     |             |                                                                                       |                                                                                       |



| TL50C Series                                                                          | TL50BL Series                                                                         | TL70 Series                                                                           | TLF100 Pro                                                                            |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 50                                                                                    | 50                                                                                    | 70                                                                                    | 100                                                                                   |
| 30                                                                                    | 30                                                                                    | 30                                                                                    | —                                                                                     |
| AC or DC                                                                              | AC or DC                                                                              | AC or DC                                                                              | DC                                                                                    |
| IP67                                                                                  | IP67                                                                                  | IP65                                                                                  | IP65, IP69K                                                                           |
|  |  |  |  |
| ✓                                                                                     | ✓                                                                                     | ✓                                                                                     | ✓                                                                                     |
| ✓                                                                                     | ✓                                                                                     | ✓                                                                                     | ✓                                                                                     |
|                                                                                       | ✓                                                                                     |                                                                                       | ✓                                                                                     |
|                                                                                       |                                                                                       | ✓                                                                                     |                                                                                       |
|                                                                                       |                                                                                       | ✓                                                                                     |                                                                                       |



Programmable LED indicators offer multiple color choices in a single housing

# Indicators

## Selection Guide



| Family Name                 | S15L             | S18L/S22L   | S22 Pro                                                                             | WLS15 Pro                                                                                                                                                                                                                                                           | WLS27 Pro                                                                                                                                                                      | WLS28 Pro                                                                                                                                                                      |
|-----------------------------|------------------|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing Diameter (mm)       | 15               | 18          | 22                                                                                  | 15                                                                                                                                                                                                                                                                  | 27                                                                                                                                                                             | 28                                                                                                                                                                             |
| Mounting Hole Diameter (mm) | —                | 18/22       | 22                                                                                  | —                                                                                                                                                                                                                                                                   | —                                                                                                                                                                              | —                                                                                                                                                                              |
| AC/DC                       | DC               | DC          | DC                                                                                  | DC                                                                                                                                                                                                                                                                  | DC                                                                                                                                                                             | DC                                                                                                                                                                             |
| IP Rating                   | IP66, IP67, IP68 | IP67, IP69K | IP66, IP67, IP69K                                                                   | IP66, IP67                                                                                                                                                                                                                                                          | IP66, IP67, IP69K                                                                                                                                                              | Unsealed: IP50<br>Sealed: IP67, IP69K                                                                                                                                          |
| Programmable                |                  |             |  | <br><br> | <br> | <br> |
| Multicolor Options          | ✓                | ✓           | ✓                                                                                   | ✓                                                                                                                                                                                                                                                                   | ✓                                                                                                                                                                              | ✓                                                                                                                                                                              |
| Audible                     |                  |             |                                                                                     |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                |                                                                                                                                                                                |
| Daylight Visible            |                  | ✓           |                                                                                     |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                |                                                                                                                                                                                |



| CL50 Series                                                                                                                                                                    | K30 Series                                                                                                                                                                                                                                                              | K50 Series                                                                                                                                                                                                                                                              | K70 Core | K90 Series                                                                                                                                                                     | K100 Pro                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 50                                                                                                                                                                             | 30                                                                                                                                                                                                                                                                      | 50                                                                                                                                                                                                                                                                      | 70       | 90                                                                                                                                                                             | 100                                                                                                       |
| 30                                                                                                                                                                             | 22                                                                                                                                                                                                                                                                      | 30                                                                                                                                                                                                                                                                      | 30       | 30                                                                                                                                                                             | 36                                                                                                        |
| AC or DC                                                                                                                                                                       | DC                                                                                                                                                                                                                                                                      | DC                                                                                                                                                                                                                                                                      | DC       | DC                                                                                                                                                                             | AC or DC                                                                                                  |
| IP67                                                                                                                                                                           | IP67, IP69K                                                                                                                                                                                                                                                             | IP65, IP67, IP69K                                                                                                                                                                                                                                                       | IP65     | IP66, IP67                                                                                                                                                                     | IP69K                                                                                                     |
| <br> | <br><br> | <br><br> |          | <br> | <br>(DC models only) |
| ✓                                                                                                                                                                              | ✓                                                                                                                                                                                                                                                                       | ✓                                                                                                                                                                                                                                                                       | ✓        | ✓                                                                                                                                                                              | ✓                                                                                                         |
| ✓                                                                                                                                                                              |                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                       |          |                                                                                                                                                                                | ✓                                                                                                         |
|                                                                                                                                                                                |                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                                                                                                                                       |          |                                                                                                                                                                                | ✓                                                                                                         |



Programmable LED indicators offer multiple color choices in a single housing

# Touch Button and Pick-to-Light Selection Guide



| Family Name                 | S22 Pro Touch                                                                       | K30 Touch Series                                                                                                                                                                                                                                                  | K30 Pro Optical Sensor                                                               | K50 Optical Series                                                                                                                                                                                                                                                      |
|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicator Diameter (mm)     | 22                                                                                  | 30                                                                                                                                                                                                                                                                | 30                                                                                   | 50                                                                                                                                                                                                                                                                      |
| Mounting Hole Diameter (mm) | 22                                                                                  | 22                                                                                                                                                                                                                                                                | 22                                                                                   | 30                                                                                                                                                                                                                                                                      |
| AC/DC                       | DC                                                                                  | DC                                                                                                                                                                                                                                                                | DC                                                                                   | DC                                                                                                                                                                                                                                                                      |
| IP Rating                   | IP69                                                                                | IP67, IP69K                                                                                                                                                                                                                                                       | IP65                                                                                 | IP67, IP69K                                                                                                                                                                                                                                                             |
| Programmable                |  | <br><br> |  | <br><br> |
| Multicolor Options          | ✓                                                                                   | ✓                                                                                                                                                                                                                                                                 | ✓                                                                                    | ✓                                                                                                                                                                                                                                                                       |
| Audible                     |                                                                                     |                                                                                                                                                                                                                                                                   |                                                                                      |                                                                                                                                                                                                                                                                         |



| K50 Touch Series                                                                                                                                                                                                                                                        | K50 Pro Touch Display                                                                                                                                                                                                                                                   | K70 Touch Series                                                                      | PTL110                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 50                                                                                                                                                                                                                                                                      | 50                                                                                                                                                                                                                                                                      | 70                                                                                    | 15                                                                                                                                                                             |
| 30                                                                                                                                                                                                                                                                      | 30                                                                                                                                                                                                                                                                      | 30                                                                                    | —                                                                                                                                                                              |
| DC                                                                                                                                                                                                                                                                      | DC                                                                                                                                                                                                                                                                      | DC                                                                                    | DC                                                                                                                                                                             |
| IP65, IP67, IP69K                                                                                                                                                                                                                                                       | IP67, IP69K                                                                                                                                                                                                                                                             | IP65                                                                                  | IP66, IP67                                                                                                                                                                     |
| <br><br> | <br><br> |  | <br> |
| ✓                                                                                                                                                                                                                                                                       | ✓                                                                                                                                                                                                                                                                       | ✓                                                                                     |                                                                                                                                                                                |
| ✓                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                         | ✓                                                                                     |                                                                                                                                                                                |



Programmable LED indicators offer multiple color choices in a single housing



# More Sensors, More Solutions.

Banner Engineering designs and manufactures industrial automation products including sensors, smart IIoT and industrial wireless technologies, LED lights and indicators, measurement devices, machine safety equipment, as well as barcode scanners and machine vision. These solutions help make many of the things we use every day, from food and medicine to cars and electronics. A high-quality, reliable Banner product is installed somewhere around the world every two seconds. Headquartered in Minneapolis since 1966, Banner is an industry leader with more than 10,000 products, operations on five continents, and a world-wide team of more than 5,500 employees and partners. Our dedication to innovation and personable service makes Banner a trusted source of smart automation technologies to customers around the globe.

