# Lighting and Indication Selection Guide

BANNER ®

Pro Series Configurable Lighting

The Pro Series configurable 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 Discrete I/O, IO-Link, Ethernet, or Modbus for real-time communication across your factory.
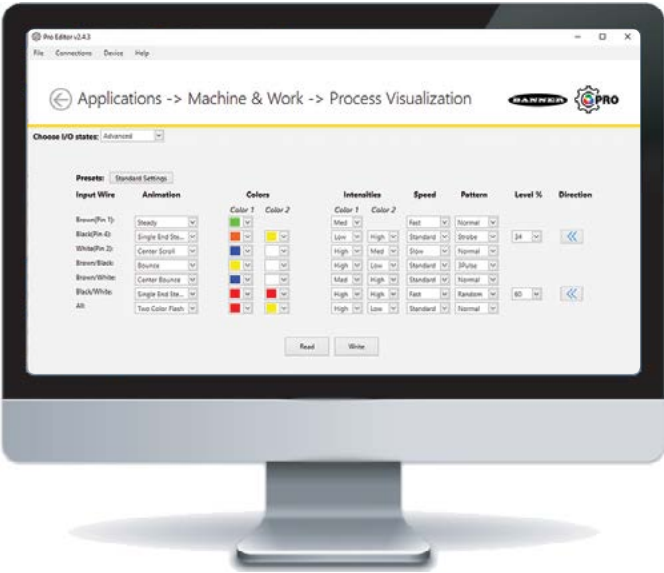
Software for Configurable Devices

Banner's free Pro Editor Software allows users to configure device status, colors, animations, and much more for control via discrete inputs, bringing intuitive indication and interaction to the visual factory. Configurable 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, or communicating multiple machine states.

Technologies

PRO	allows control via discrete inputs with advanced software configuration of colors, logic, modes, and more.
IO-Link®	is an open standard serial communication protocol that allows for the bi-directional exchange of data from IO-Link supported devices, lights, or indicators that are also connected through a master.
Modbus	is a serial data communication protocol that is based on a request-response model.
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.
EtherNet/IP	is an industrial network protocol that adapts the Common Industrial Protocol to standard Ethernet.
PROFINET INDUSTRIAL ETHERNET	is an industrial network protocol for data communication over Industrial Ethernet

Modes and Applications

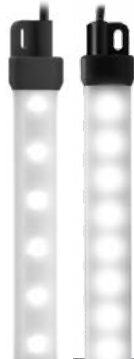|	
Equipment Status	Translate machine outputs to actionable information
Assembly Instructions	Step through sequential operator guidance
Measurement	Convert and display dynamic sensor outputs like distance, level, and more
Timer	Start, stop, and reset the timer to display takt time and more
Counter	Increase or decrease the count value based on input pulses

	S15L Pro	S22 Pro Indicator and Touch Button	K30 Pro Indicator, Touch, and Optical	K50 Pro Indicator, Touch, Optical, and Audible	GS60 Pro	LCA130T	CL50 Pro	TL50 Pro
PRO	✓	✓	✓	✓	✓	✓	✓	✓
IO-Link®			✓	✓		✓	✓	✓
Modbus / PICK-IQ®	✓		✓	✓			✓	✓
EtherNet/IP								
PROFINET INDUSTRIAL ETHERNET								
Banner Wireless						✓		

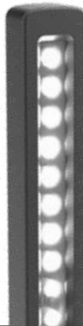|	TL70 Pro	K90 Pro	K100 Pro	TLF100 Pro	WLF12 Pro	WLS15 Pro	WLS27 Pro	RLS27 Pro	WLS28 Pro	SD50	PTL110
PRO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IO-Link®	✓	✓		✓	✓	✓	✓		✓	✓	
Modbus / PICK-IQ®	✓				✓	✓			✓		✓
EtherNet/IP	✓										
PROFINET INDUSTRIAL ETHERNET	✓										
Banner Wireless	✓									✓	

Programmable LED indicators offer multiple color choices in a single housing

Series Name	WLF12	WLS15	WLS27	WLS28-2	WLB32
Length (mm)	300 to 4000	220 to 1200	145 to 1130	145 to 1130	285 to 1130
AC/DC	DC	DC	DC	DC	AC and DC
White Lumens per Foot (300 mm)	285	350 standard 750 high intensity	800	800	750
IP Rating	IP66, IP67, IP69K	IP66, IP67	IP66, IP67, IP69K	Unsealed: IP50 Sealed: IP67, IP69K	IP50
PRO (see page 10)	✓	✓	✓	✓	
Color Options		✓	✓	✓	
Communication Protocol	IO-Link®	IO-Link® Modbus	IO-Link®	IO-Link®	
Hazardous Location Models			HLS27	HLS28	

Series Name	RLS27	WLS70	WLB72	WLB92	BL60	WLC60	WLH60 High Temp
Length (mm)	285 to 2270	300 to 1200	1200 and 2400	550 and 1100	340 and 640	340 and 640	340 and 640
AC/DC	DC	AC and DC	AC	AC and DC	DC	DC	DC
White Lumens per Foot (300 mm)	850	1350	1700	1755	1375	1300	1150
IP Rating	IP67, IP69K	IP65	IP20	IP40	IP67, IP68g, IP69K	IP68, IP68g, IP69K	IP68, IP69K
PRO (see page 10)	✓						
Color Options	✓				✓		
Communication Protocol							
Hazardous Location Models							

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Spot and Area Lights
Selection Guide

Series Name	S15WL	WL50S	WL50-3
Dimensions (mm)	ø 15	ø 50	ø 50
AC/DC	DC	DC	DC
White Lumens	55	295	300
IP Rating	IP65, IP67, IP68	IP67, IP69K	IP67, IP69K
PRO	✓		
Color Options		✓	

Series Name	GS60	WLC90	WLR95	WLA-2
Dimensions (mm)	ø 60	89 x 91	94 x 49	105 x 180 to 360 x 180
AC/DC	DC	DC	DC	DC
White Lumens	300	700	600	1025 per 85 mm panel
IP Rating	IP66, IP67	IP68, IP68g, IP69K	IP65, IP67, IP68	Sealed: IP67, IP69K Encapsulated: IP67, IP68, IP69K
PRO	✓			
Color Options	✓		✓	

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Tower Lights
Selection Guide

Series Name	TL15	WLS27	TL30 Series	CL50 Series	TL50 Andon Series
Segment Diameter (mm)	15	27	30	50	50
Mounting Hole Diameter (mm)	—	—	30	30	—
AC/DC	DC	DC	DC	DC	DC
IP Rating	IP66, IP67, IP68	IP66, IP67, IP69K	IP65	IP67	IP54
PRO		✓		✓	
Communication Protocol		IO-Link		IO-Link, Modbus	
Audible	✓		✓	✓	✓
Daylight Visible					
Wireless					✓
Modular Construction	✓				

Series Name	TL50 Pro Select	TL50 Series	TL70 Series	TLF100 Pro
Segment Diameter (mm)	50	50	70	100
Mounting Hole Diameter (mm)	30	30	30	—
AC/DC	DC	AC or DC	AC or DC	DC
IP Rating	IP65	IP67	IP65	IP65, IP69K
PRO	✓	✓	✓	✓
Communication Protocol	IO-Link, Modbus	IO-Link	IO-Link, Modbus, EtherNet/IP, PROFINET	IO-Link
Audible	✓	✓	✓	✓
Daylight Visible		✓		✓
Wireless			✓	
Modular Construction			✓	

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Series Name	S15L Pro	S18L/S22L	S22 Pro	WLF12 Pro	WLS15 Pro	WLS27 Pro	RLS27 Pro
Housing Diameter (mm)	15	18 or 22	22	12	15	27	27
Mounting Hole Diameter (mm)	—	18/22	22	—	—	—	—
AC/DC	DC	DC	DC	DC	DC	DC	DC
IP Rating	IP66, IP67, IP68	IP67, IP69K	IP66, IP67, IP69K	IP66, IP67, IP69K	IP66, IP67	IP66, IP67, IP69K	IP67, IP69K
PRO	✓		✓	✓	✓	✓	✓
Communication Protocol	Modbus			IO-Link® Modbus	IO-Link® Modbus	IO-Link®	
Audible							
Daylight Visible		✓					✓

Series Name	WLS28 Pro	GS60 Series	K30 Series	K50 Pro Select	K50 Series	K70 Core	K90 Series	K100 Pro
Housing Diameter (mm)	28	60	30	50	50	70	90	100
Mounting Hole Diameter (mm)	—	30	30	30	30	30	30	36
AC/DC	DC	DC	DC	DC	DC	DC	DC	AC or DC
IP Rating	Unsealed: IP50 Sealed: IP67, IP69K	IP66, IP67	IP67, IP69K	IP65, IP67, IP69K	IP65, IP67, IP69K	IP65	IP66, IP67	IP69K
PRO	✓	✓	✓	✓	✓		✓	✓ (DC models only)
Communication Protocol	IO-Link®		IO-Link® Modbus	IO-Link® Modbus	IO-Link® Modbus			IO-Link®
Audible					✓			✓
Daylight Visible					✓			✓

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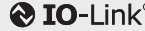
Touch Button
and Pick-to-Light
Selection Guide

Series Name	S22 Pro Touch	K30 Touch Series	K30 Pro Optical Sensor	K50 Pro Select Optical	K50 Optical Series
Indicator Diameter (mm)	22	30	30	50	50
Mounting Hole Diameter (mm)	22	22	22	30	30
AC/DC	DC	DC	DC	DC	DC
IP Rating	IP66, IP67, IP69K	IP67, IP69K	IP65	IP66, IP67, IP69K	IP67, IP69K
PRO	✓	✓	✓	✓	✓
Communication Protocol		IO-Link® PICK-IQ®		IO-Link® Modbus	IO-Link® PICK-IQ®
Sensor Range	—	—	20 to 1000 mm	20 to 1000 mm	50, 100, 200 mm
Audible					

Series Name	K50 Pro Select Touch	K50 Touch Series	K50 Pro Touch Display	K70 Touch Series	PTL110
Indicator Diameter (mm)	50	50	50	70	15
Mounting Hole Diameter (mm)	30	30	30	30	—
AC/DC	DC	DC	DC	DC	DC
IP Rating	IP66, IP67, IP69K	IP65, IP67, IP69K	IP67, IP69K	IP65	IP66, IP67
PRO	✓	✓	✓	✓	
Communication Protocol	IO-Link® Modbus	IO-Link® PICK-IQ®	IO-Link® PICK-IQ®		PICK-IQ®
Sensor Range	—	—	—	—	100, 200 mm
Audible		✓		✓	

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Display
Selection Guide

Series Name	K50 Pro Touch Display	SD50 Display	PTL110
Dimensions (mm)	ø 50	386 x 52	35 x 110
Number of Characters	4	16 or 29 scrolling	3
IP Rating	IP67, IP69K	IP65	IP66, IP67
Control Capabilities	✓		✓
PRO	✓	✓	
Communication Protocol	IO-Link® PICK-IQ®	IO-Link® Modbus	PICK-IQ®

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Smarter Automation. Better 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.

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