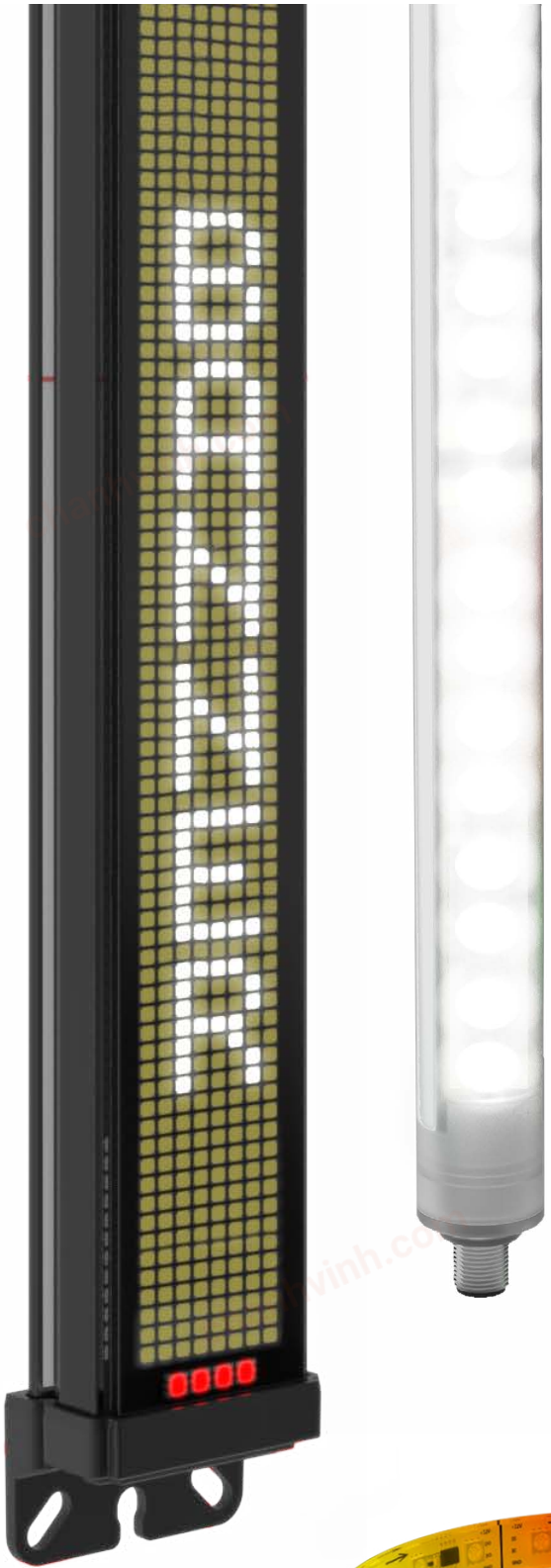
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Lighting & Indication Solutions



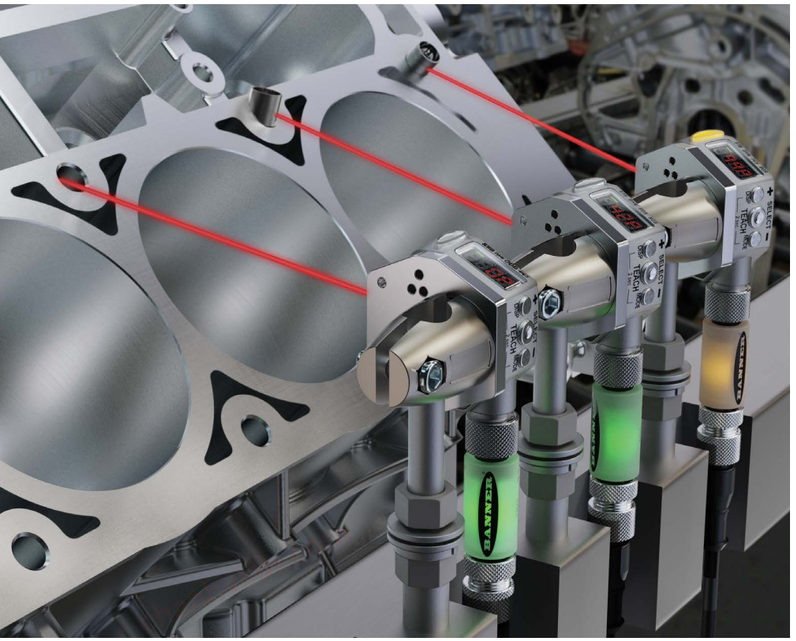






BANNER®

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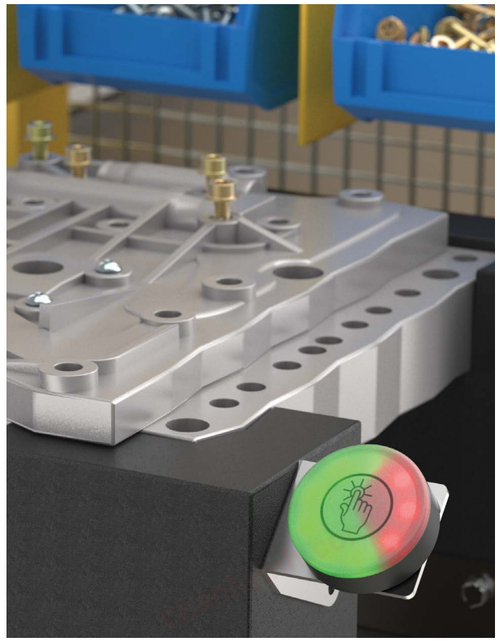




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Light Up the Visual Factory

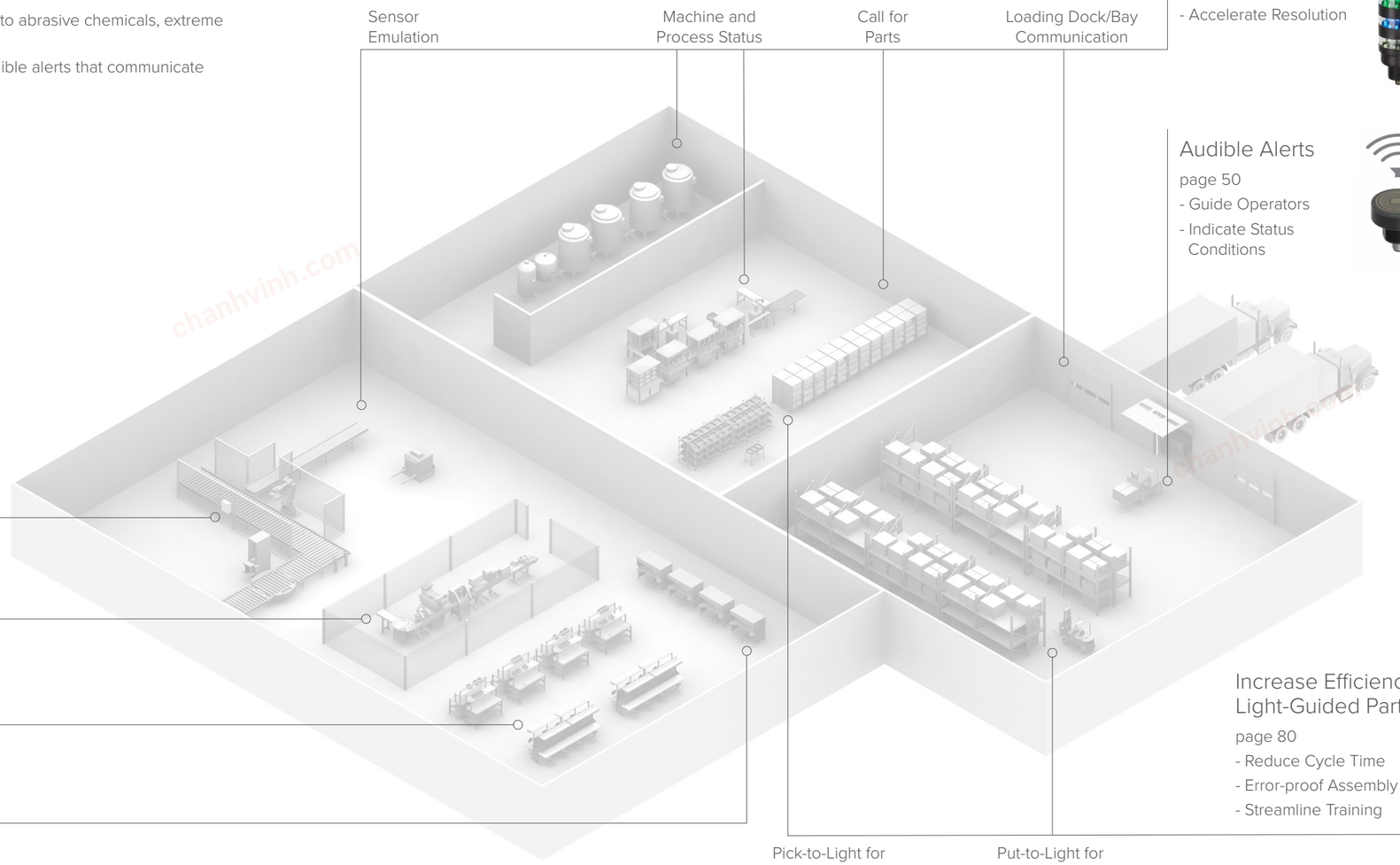
- LED indicators provide at-a-glance status indication
- Rugged illumination for the harshest environments, including areas exposed to abrasive chemicals, extreme temperatures, and high-pressure washdown
- Give your equipment a voice with programmable colors, animations, and audible alerts that communicate every condition



Illuminate the Work Area with LED Lighting

page 12

- Boost Worker Productivity
- Improve Product Quality
- Increase Worker Safety



Communicate Status

pages 40, 56

- Empower Operators
- Alert Supervisors
- Accelerate Resolution



Audible Alerts

page 50

- Guide Operators
- Indicate Status Conditions



Increase Efficiency with Light-Guided Part Picking

page 80

- Reduce Cycle Time
- Error-proof Assembly
- Streamline Training





Wireless options to avoid costly wiring runs



Variety of audible options, including programmable



Color and animation options available



Multiple colors in one unit with flexible I/O configuration



Cascadeable lights



Magnetic mounting options for easy installation and portability



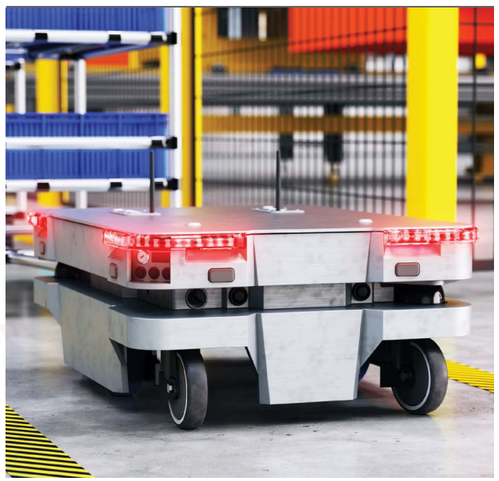
Light sections can be permanently laser marked with custom text or images

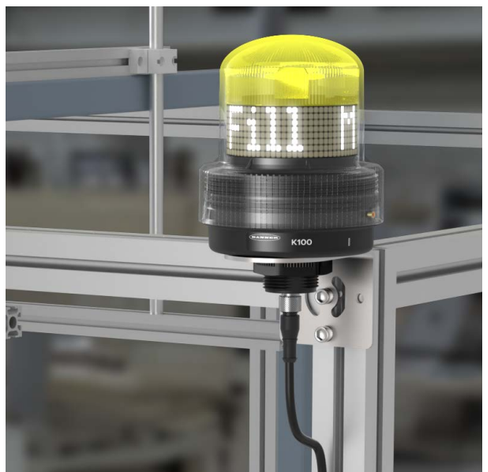
New Products



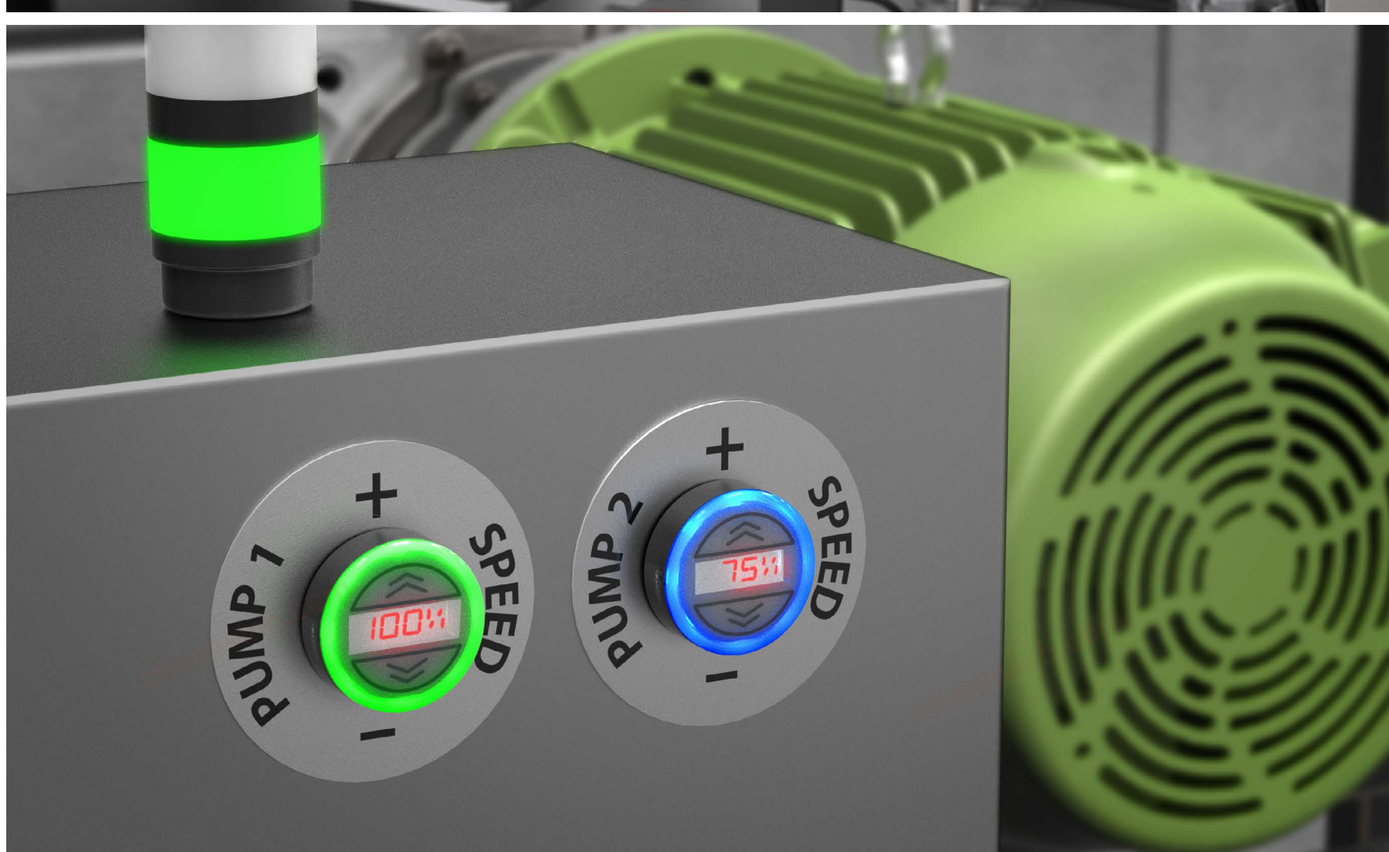












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New Products



K50 I/O Touch Control with Display

- Onboard analog, PWM, PFM, and discrete outputs enable control of core applications such as adjusting VFD speed, dimming LED lights, and signaling part-picking details
- Two capacitive touch zones provide reliable input with gloved or bare hands—with no mechanical parts to wear out
- Four-character display improves operator response by showing output values and system messages
- Bright, multicolor LEDs provide operators with at-a-glance equipment status. All colors and animations are easily configured with Banner's free Pro Editor software



K50 Programmable Indicators, Touch Buttons, and Touchless Buttons

- Cost-efficient, lightweight design and bright, clear colors solve indication and feedback challenges across many industries and applications
- Delivers long-lasting performance in industrial environments with its rugged, sealed IP66-, IP67-, and IP69K-rated housing
- Consolidate inventory and simplify ordering processes by purchasing and configuring one part that does the job of multiple devices
- Easily control and configure additional colors, animations, and other parameters with Banner's free, PC-based Pro Editor software



SD50 Status Display

- Easily configurable, versatile display can be installed nearly anywhere, making it a simple yet powerful alternative to complex HMIs and other displays
- Great for displaying takt time, equipment status, assembly sequences, counts, and measurements where they are most useful
- Discrete and IO-Link models integrate into many different systems and applications, especially Banner sensing, safety, and monitoring solutions
- Quick and easy configuration—define the desired text and call it via discrete control or process data



GS60 Programmable Guide Spotlights

- Reduce errors, improve productivity, and enhance operator interaction with increased visibility provided by the bright, focused spot
- Enhance worker comfort and safety by easily setting lighting levels to match the environment and application needs
- Reliably use in harsh environments with the long-lasting, impact resistant, durable anodized aluminum housing and polycarbonate window
- Communicate operational information with seven-color Programmable models



TL70 Pro Modular Tower Lights with Modbus RTU, Ethernet, and Power over Ethernet (PoE)

- Expand what is visually communicated via tower lights by using multicolor light segments with animations including flash, strobe, rotate, and more
- Allow users to stock just a few unique parts and construct the exact tower light needed for their application with a modular design, scaling easily from just one segment up to six segments
- Combine sound with visual notifications to bring greater awareness to people working near equipment by adding an audible segment with selectable tones and intensities
- Control dynamic indication and audible alerts throughout a facility using a choice of IO-Link, Modbus RTU, Ethernet, and/or PoE models



WLF12 Flexible Strip Lights

- Durable, silicone-encapsulated housing provides long-lasting, worry-free performance
- Plug-and-play standard M12 connections simplify installation by eliminating soldering
- Models available with 19 colors and 15 animation effects visually communicate machine states to people working on or near equipment
- Housing lengths (from 300 to 4000 mm) can be cut in 50 mm increments to fit to exact application specifications
- Peel-and-stick installation using high-strength adhesive backing ensures quick and secure mounting



WLB32 PoE Workstation Lights with Modbus

- Easily connect directly to a Power over Ethernet (PoE)-enabled port on an Ethernet switch instead of needing skilled labor to wire simple lighting to a power source
- On models with power and control over Ethernet, configure light intensity and flashing alerts in real time via Modbus®/TCP communication for consistent control over area lighting
- Reduce errors and scrap by providing proper lighting for assembly and inspection tasks
- Decrease glare and eye strain and improve worker comfort and productivity by using models that include eye shield windows



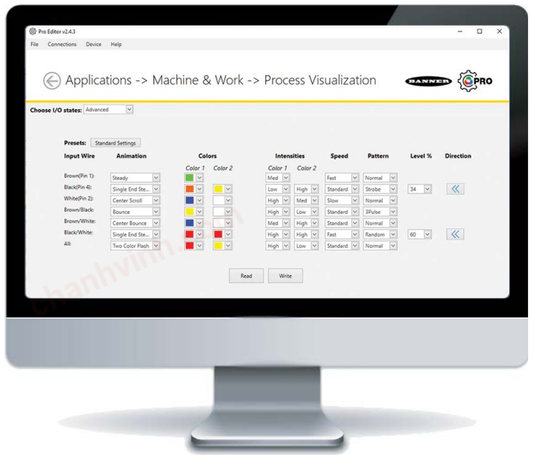
K100 Programmable Display Beacons

- Improve awareness across a full 360-degrees with bright white alphanumeric display and dynamic color indication combined in a single rugged device
- Easily configure color, messages, and display behavior in discrete models with free software, or take full control via protocol with IO-Link and Modbus models
- Convey more detail with up to 32 scrolling alphanumeric characters legible from 10 meters
- Enhance visibility and status recognition with 14 distinct, configurable color options
- Make critical messages unmistakable with optional audible alerts that capture attention in noisy environments
- Integrate seamlessly into any system with discrete, IO-Link, and Modbus models

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Programmable Lighting

The Programmable Series configurable multicolor LED devices from Banner Engineering offer limitless possibilities for advanced indication of dynamic machine states, operator interaction, and process status. The Programmable 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 Programmable 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 EDITOR SOFTWARE 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® 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	S22 Indicator and Touch Button	K30 Indicator, Touch, and Touchless	K50 Indicator, Touch, Touchless, and Audible	GS60	LCA130T	CL50	TL50	TL70	K90	K100	TLF100	WLF12	WLS15	WLS27	RLS27	WLS28	SD50 Display	K100 Display	PTL110
	pg. 58	pg. 82	pg. 62, 85	pg. 65, 67, 88-94	pg. 79	pg. 47	pg. 45	pg. 50	pg. 53	pg. 71	pg. 72	pg. 54	pg. 74	pg. 75	pg. 76	pg. 77	pg. 78	pg. 99	pg. 100	pg. 95
PRO EDITOR SOFTWARE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IO-Link®			✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	
Modbus	✓		✓	✓					✓				✓	✓				✓	✓	✓
PICK-IQ®																				
EtherNet/IP									✓											
PROFINET®									✓											

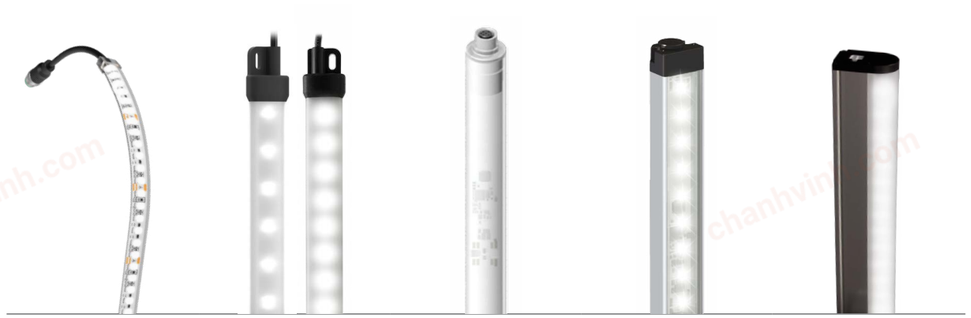


Programmable LED indicators offer multiple color choices in a single housing

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LED Task Lighting

Selection Guide





	pg. 16	pg. 17	pg. 18	pg. 22	pg. 21	pg. 20	pg. 24	pg. 25	pg. 26	pg. 27	pg. 28	pg. 29
Series Name	**WLF12**	**WLS15**	**WLS27**	**WLS28-2**	**WLB32**	**RLS27**	**WLS70**	**WLB72**	**WLB92**	**BL60**	**WLC60**	**WLH60 High Temp**
Length (mm)	300 to 4000	220 to 1200	145 to 1130	145 to 1130	285 to 1130	285 to 2270	300 to 1200	1200 and 2400	550 and 1100	340 and 640	340 and 640	340 and 640
AC/DC	DC	DC	DC	DC	AC and DC	DC	AC and DC	AC	AC and DC	DC	DC	DC
White Lumens per Foot (300 mm)	285	350 standard 750 high intensity	800	800	750	850	1350	1700	1755	1375	1300	1150
IP Rating	IP66, IP67, IP69K	IP66, IP67	IP66, IP67, IP69K	Unsealed: IP50 Sealed: IP67, IP69K	IP50	IP67, IP69K	IP65	IP20	IP40	IP67, IP68g, IP69K	IP68, IP68g, IP69K	IP68, IP69K
Programmable	(see page 56)	(see page 56)	(see page 56)	(see page 56)		(see page 56)						
Color Options		✓	✓	✓		✓				✓	✓	
Communication Protocol		IO-Link® Modbus	IO-Link®	IO-Link®	Modbus TCP							
Hazardous Location Models			HLS27	HLS28								

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LED Task Lighting

Selection Guide









	pg. 30	pg. 32	pg. 33	pg. 31	pg. 36	pg. 37	pg. 38
Series Name	**S15WL**	**WL50S**	**WL50-3**	**GS60**	**WLC90**	**WLR95**	**WLA-2**
Dimensions (mm)	ø 15	ø 50	ø 50	ø 60	89 x 91	94 x 49	105 x 180 to 360 x 180
AC/DC	DC	DC	DC	DC	DC	DC	DC
White Lumens	55	295	300	300	700	600	1025 per 85 mm panel
IP Rating	IP65, IP67, IP68	IP67, IP69K	IP67, IP69K	IP66, IP67	IP68, IP68g, IP69K	IP65, IP67, IP68	Sealed: IP67, IP69K Encapsulated: IP67, IP68, IP69K
Programmable	(see page 56)			(see page 56)			
Color Options		✓		✓		✓	

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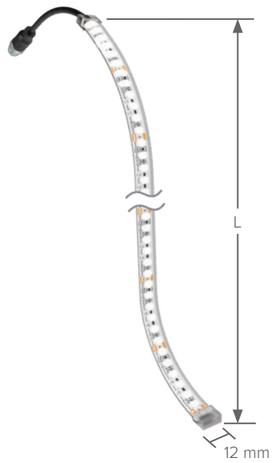
WLF12

Flexible Strip Lights

- Provides bright illumination in workspaces, cabinets, and machines with 285 lumens per foot
- Durable, silicone-encapsulated housing and advanced circuitry provide long-lasting, worry-free performance
- The flexible, cut-to-length design and direct 24 V DC operation with M12 connector give users quality light where needed
- Plug-and-play standard M12 connections simplify installation by eliminating soldering
- Peel-and-stick installation using high-strength adhesive backing ensures quick and secure mounting
- Six housing lengths (from 300 to 4000 mm) can be cut in 50 mm increments to fit exact application specifications

Series	Cascadable	Color	Lighted Length (mm)	Construction	Voltage	Connection
WLF12	**X**	**W**	**300**	**S**	**24**	**QP**
	X = Non-cascadable	**W** = Daylight white	**300** **600** **1200** **2000** **3000** **4000**	**S** = Sealed	**24** = 24 V	**QP** = 150 mm PVC-jacketed cable with 4-pin M12 male quick disconnect

PRO EDITOR SOFTWARE
Programmable models page 74



Length (L)
300 mm
600 mm
1200 mm
2000 mm
3000 mm
4000 mm

Supply Voltage	24 V DC
Bend Radius	15 mm
Construction	Silicone material, suitable for damp location use. Fully overmolded and encapsulated LEDs.
Operating Conditions	–20 to +45 °C
Environmental Rating	IP66, IP67, IP69K
Certifications	CE, cULus LISTED, UKCA

Brackets



LMBWLF12C
Set of 10 clamp brackets, translucent silicone



WLS15

LED Strip Lights

- Low-profile design for easy installation in tight spaces
- 12 or 24 V DC operation in one model
- Completely sealed with an IP67 rating for use in wet or dusty environments
- The rugged construction and polycarbonate shell resists shock and vibration while remaining lightweight
- LED lighting technology saves energy and minimizes replacement costs
- Brackets and connectors are available to keep installation simple
- Draws half the current of other lights for a low-power device and high-energy savings

Single and Multicolor Models

Series	Cascadable	Color	Length (mm)	Window	Construction	Connector
WLS15	**X**	**DW**	**0360**	**D**	**S**	**C2**
	C = Cascadable **X** = Non-cascadable	**DW** = Daylight white **WW** = Warm white **GR** = Green and red **WR** = White and red	**0220** **0640** **0360** **0920** **0500** **1200**	**D** = Diffuse	**S** = Sealed (IP66, IP67)	**C2** = 2 m integral **QP** = 150 mm M12 integral QD **QS** = 150 mm integral cable with Deutsch DTM*

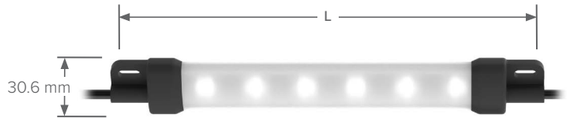
QD models require mating cordset
*Not available with multicolor models

High Intensity Models

Series	Cascadable	Color	Length (mm)	Window	Construction	Voltage	Connector
WLS15H	**X**	**DW**	**0360**	**L**	**S**	**24**	**C2**
	C = Cascadable **X** = Non-cascadable	**DW** = Daylight white **WW** = Warm white	**0360** **0640** **0920** **1200**	**L** = Light diffuse	**S** = Sealed (IP66, IP67)	**24** = 24 V DC	**C2** = 2 m integral **QP** = 150 mm M12 integral QD

QD models require mating cordset

Dimming Accessories page 110



Length (L)
220 mm 640 mm
360 mm 920 mm
500 mm 1200 mm

Supply Voltage	12 or 24 V DC nominal
Lumens	Standard: 175–1400 High Intensity: 750–3000
Construction	Inner Housing: Clear anodized aluminum Outer Housing: Polycarbonate End Caps: Polyamide
Operating Conditions	–40 to +60 °C
Environmental Rating	IP66, IP67, UL 2108
Certifications	CE, cULus LISTED, UKCA, cULus E476617, D, UL-NOM MX

Brackets



LMBWLS15-150S



LMBWLS15



LMBWLS15MAG
Magnetic Mount



LMBWLS15TF
Tape



LMBWLS15TD
Velcro

PRO EDITOR SOFTWARE
Programmable models page 75

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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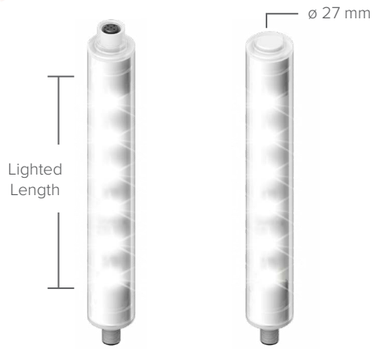


WLS27

LED Strip Lights

- Cylindrical design, ideal for laminar airflow applications
- Rugged, water-resistant IP66, IP67, and IP69K construction
- Chemically resistant copolyester housing
- Available in eight lengths from 145 mm to 1130 mm
- Power can be daisy-chained to multiple lights
- Capability to dim lights using the wiring pinout (Hi/Low/Off)*
- Intensity can be controlled from 0% to 100% using Pulse Width Modulation (PWM) dimming*
- Optional snap clips for easy installation and repositioning
- Automatic temperature protection built into the unit. Above 50 °C, the light dims to manage heat and protect product lifetime

*Hi/low/off and PWM are for single color models only



First or Middle of Cascade

Stand-Alone or Cascade End Light

Lighted Length (L)

145 mm	710 mm
285 mm	850 mm
430 mm	990 mm
570 mm	1130 mm

Supply Voltage	White: 12 to 30 V DC Multicolor: 24 V DC
Lumens	White: 400–3200** Multicolor: 125–2600**
Construction	Housing: Copolyester Inner Housing: Clear anodized aluminum Outer Housing: FDA grade copolyester
Operating Conditions	Single Color: –40 to +70 °C Multicolor: –40 to +50 °C
Environmental Rating	IP67, IP66, IP69K per DIN 40050
Certifications	

**Depending on length and color

Single Color Models

Series	Cascadable	Color	Lighted Length (mm)	Window	Construction	Control	Connector
WLS27	**X**	**W**	**285**	**D**	**S**		**Q**
	C = Cascadable **X** = Non-cascadable	**W** = Cool white **WW** = Warm white **R** = Red **G** = Green **B** = Blue **Y** = Yellow	**145** **285** **430** **570** **710** **850** **990** **1130**	**D** = Diffuse plastic	**S** = Sealed	**Blank** = None **PWM** = Pulse Width Modulation dimming	**Q** = M12 integral QD QD models require mating cordset

Multicolor Models

Series	Cascadable	Colors 1-5 and Control		Lighted Length (mm)	Window	Construction	Voltage	Connector
WLS27	**X**	**WGRXX3**	–	**0285**	**D**	**S**	**24**	**Q**
	C = Cascadable **X** = Non-cascadable	**WGRXX3** = White, green, red with override control **WYRXX3** = White, yellow, red with override control **GYRXX3** = Green, yellow, red with override control **WGRYB5** = White, green, red, yellow, blue with binary control **WGRXX6** = White, green, red with I/O block control **WYRXX6** = White, yellow, red with I/O block control **GYRXX6** = Green, yellow, red with I/O block control		**0285** **0570** **0850** **1130**	**D** = Diffuse plastic **H** = Heavy diffuse plastic	**S** = Sealed	**24** = 24 V DC	**Q** = M12 integral QD QD models require mating cordset

PRO EDITOR SOFTWARE
Programmable models page 76

Dimming Accessories page 110

Brackets



LMBWLS27EC
Clear Copolyester



LMBWLS27H



LMBWLS27T



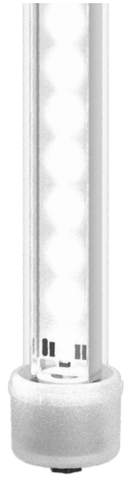
LMBWLS27U
Clear Copolyester
(Also available with magnet LMBWLS27U-MAG)



LMBWLS27SP
Clear Copolyester

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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RLS27

Rugged LED Strip Lights

- Shatterproof, UV-stabilized polycarbonate shell offers superior chemical resistance and protection to withstand harsh environments such as car washes
- Sturdy aluminum housing and robust endcaps provide dependable use outside in any weather
- High-intensity focused lens delivers long-range illumination for easy viewing outdoors
- IP67- and IP69K-rated for reliable operation in demanding applications with high temperatures and high pressure washdowns

Single and Multicolor Models

Series	Cascadable	Color	Lighted Length (mm)	Window	Construction	Control (Single color only)	Connection
RLS27	X	W	1130	L35	S		QP

X = Non-cascadable

W = Daylight white (5000K)
WGRXX3- = White, green, red with override control
WGRYB5- = White, green, red, yellow, blue with binary control

285
570
850
1130
1700
2270

Blank = Clear
L35 = 35° lensed window

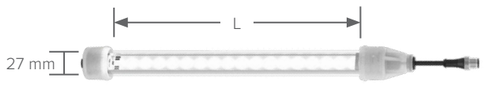
S = Sealed

Blank = Hi/low/off*
PWM = Pulse Width Modulation*

*Only available on single color models

QP = 150 mm PVC-jacketed cable with 4-pin M12 male quick disconnect

PRO EDITOR SOFTWARE
Programmable models page 77



Lighted Length (L)

285 mm 1130 mm
570 mm 1700 mm
850 mm 2270 mm

Supply Voltage	Single color: 12 to 30 V DC Multicolor: 24 V DC
Lumens	White: 850–6800** Multicolor: 125–5200**
Construction	Inner housing: clear anodized aluminum Outer housing: UV-stabilized polycarbonate Connector: Nickel-plated
Operating Conditions	–40 to +70 °C (–40 to +158 °F)
Environmental Rating	IP67, IP69K per DIN 40050-9
Certifications	CE, cULus LISTED, UKCA

**Depending on length and color

Brackets



LMBHLS27S
Impact absorbing brackets, set of two (included)



LMBHLS27O
Impact absorbing clamp brackets, set of two (optional)



LMBWLS27H
Hanging clamp brackets, set of two (optional)



LMBWLS27U
Universal clamp bracket (optional)



WLB32

LED Strip Lights

- Energy efficient for overall cost savings
- Integrated switch allows users to customize light levels: high/low/off switch on AC/DC models and an 11-position rotary knob on PoE models
- Available as cascadable models for a continuous length of lighting, with a minimal amount of wiring
- Metal housing, shatterproof window
- Easy installation with snap clips, or a choice of magnetic or angle brackets
- Flexible use with AC, DC, or Power over Ethernet (PoE) models
- Motion detection models are ideal for locations that cannot use a physical switch or where the placement of the switch is not useful
- Models featuring an eye shield block direct line of sight to increase operator comfort

Series	Power	Cascadable	Lighted Length (mm)	Shield	Switch	Connector	Plug Type (AC Only)
WLB32	Z	C	285	E	P	QM	B

E = Ethernet (PoE)
PE = Ethernet with Modbus (PoE)
Z = AC
Blank = DC

*Not available with PoE models

X = Non-cascadable
C = Cascadable*

285
570
850
1130

Blank = No eye shield
E = Eye shield

Blank = No switch*
M = Motion switch*
PB = Hi/Low/Off*
P = Potentiometer

Blank = Cable (DC)
Q = 4-Pin M12 integral QD (DC, PoE)
QM = AC QD

QD models require mating cordset

B = North & Central America, Japan, Taiwan
D = India, Sri Lanka, Nepal, Namibia
EF = France, Belgium, Slovakia, Tunisia, Germany, Austria, Netherlands, Spain, S. Korea, Turkey, Poland
C = AC connector with flying leads
Blank = AC (no power cord)



Lighted Length (L)

285 mm 850 mm
570 mm 1130 mm

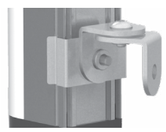
Supply Voltage	DC: 12 to 30 V DC AC: 90 to 264 V AC PoE: 42.5 to 57 DC
Lumens	750–3000
Color Temperature	5000K
Switch	PoE: Dimming knob, 10 levels of intensity adjustment, off position All other: High/low/off = 100/50/0%
Construction	Housing: Anodized aluminum Window and end caps: Polycarbonate
Operating Conditions	DC: –40 to +70 °C AC: –25 to +45 °C PoE: –40 to +50 °C
Environmental Rating	PoE: IP40 All other: IP50
Certifications	CE, cULus LISTED, UKCA*, cULus*, UL-NOM MX*

*Not available with PoE models

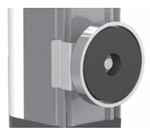
Brackets



LMBWLB32



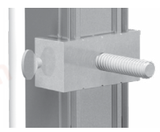
LMBWLB32-180S



LMBWLB32MAG
Magnetic Mount



LMBWLB32U



LMBWLB32UT

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



WLS28-2

LED Strip Lights

- Compact, space-saving design
- Lensed models or choice of clear or diffuse window
- Cascade models for connecting multiple lights end-to-end, minimizing wiring
- Hi/Low/Off switch, motion switch, and non-switch models available
- Low power consumption; less than 9 watts per foot
- Optional snap clips for easy installation and repositioning
- Automatic temperature protection built into the unit. Above 50 °C, the light dims to manage heat and protect product lifetime



Lighted Length (L)

145 mm	710 mm
285 mm	850 mm
430 mm	990 mm
570 mm	1130 mm

Supply Voltage	12 to 30 V DC
Lumens	White: 400–3200* Multicolor: 125–2600*
Construction	Housing: Clear anodized aluminum Window: Polycarbonate (clear and diffuse plastic models) or acrylic (lensed models) End Caps: Painted zinc
Operating Conditions	–40 to +70 °C
Environmental Rating	Non-sealed: IP50 Sealed: IP67, IP69K per DIN 40050
Certifications	

*Depending on length and color

White Models

Series	Cascadable	LED Color	Lighted Length (mm)	Window	Construction	Control	Connector
WLS28-2	**C**	**W**	**145**		**X**		**Q**
	C = Cascadable **X** = Non-cascadable	**W** = Cool white **WW** = Warm white	**145** **285** **430** **570** **710** **850** **990** **1130**	**Blank** = Clear plastic **D** = Diffuse plastic **L25** = 25° lensed window	**S** = Sealed* **X** = Not sealed	**Blank** = None **M** = Motion switch **PB** = Hi/Low/Off switch **PWM** = Pulse Width Modulation dimming	**Blank** = 2 m integral cable **Q** = M12 integral QD QD models require mating cordset

*Sealed models not available with ON/OFF Switch (PB) or Motion Switch (M)

Multicolor Models

Series	Cascadable	Colors 1-5 and Control		Lighted Length (mm)	Window	Construction	Voltage	Connector
WLS28-2	**X**	**WGRXX3**	–	**0285**	**D**	**X**	**24**	**Q**
	C = Cascadable **X** = Non-cascadable	**WGRXX3** = White, green, and red with override control **WYRXX3** = White, yellow, and red with override control **GYRXX3** = Green, yellow, and red with override control **WGRYB5** = White, green, red, yellow, and blue with binary control **WGRXX6** = White, green, and red with I/O Block control **WYRXX6** = White, yellow, and red with I/O Block control **GYRXX6** = Green, yellow, and red with I/O Block control		**0285** **0570** **0850** **1130**	**Blank** = Clear plastic **D** = Diffuse plastic **L25** = 25° lensed window	**X** = Not sealed **S** = Sealed	**24** = 24 V	**Blank** = 2 m integral cable **Q** = M12 integral QD QD models require mating cordset

PRO SOFTWARE
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Dimming Accessories page 110

Brackets



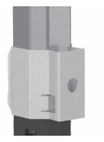
SMBWLS28RA
Top Mount (included)



SMBWLS28SM
Side Mount



SMBWLSMAG
Magnetic Mount
Protective cover for magnet sold separately (SMBWLSMAGR).



SMBWLS28SP
Snap Mount

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



WLS70

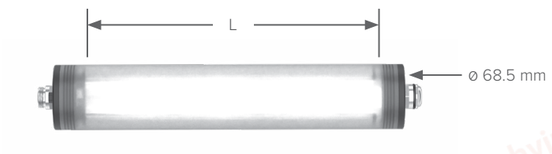
Sealed High-Output Strip Lights

- Exceptionally efficient for overall energy and cost savings
- Increase worker productivity and ergonomics with bright, high-quality, uniform light
- Sturdy aluminum housing encased in a shatterproof, UV-stabilized polycarbonate shell
- Daisy-chain long runs of AC lights quickly and easily with cascade quick disconnect models
- Dimming standard on all models

Series	Voltage	Cascadable	Color	Lighted Length (mm)	Window	Control	Connector
WLS70	**Z**	**X**	**W**	**600**	**D**	**A**	**QM**
	Z = AC **Blank** = DC	**X** = Non-cascadable* **C** = Cascadable	**W** = Daylight white	**300** **600** **900** **1200**	**D** = Diffuse	**A** = 0-10 V analog dimming (AC) **PWM** = PWM dimming (DC)	**Blank** = 5-wire, 2 m cable (AC) 4-wire, 2 m cable (DC) **Q** = 4-pin M12 integral QD** **QM** = 5-pin integral 7/8 QD†

*DC models available as non-cascadable only
**DC models only
†Cascadable models only available with QM connection

Dimming Accessories page 110



Lighted Length (L)
300 mm 900 mm
600 mm 1200 mm

Supply Voltage	DC: 12 to 30 V DC (300–900 mm models) 18 to 30 V DC (1200 mm models) AC: 100 to 277 V AC
Lumens	1350–5400
Construction	Inner Housing: Anodized aluminum Outer Housing: Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65
Impact Rating	IK10
Certifications	

Brackets



LMBWLS70



LMBWLS70H



LMBWLS70T



LMBWLS70HK
Hanging Kit



LMBWLS70HHK
Hanging Kit



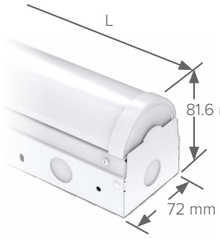
WLB72

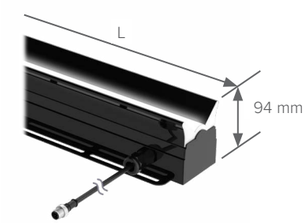
Industrial LED Strip Lights

- Features a low total cost of ownership (TCO) and provides years of reliable, maintenance-free operation—with no bulb or ballast changes required throughout the entire lifespan of the device
- Eye shield window option for superior glare control and “zebra striping” effect for inspection applications
- Durable metal housing and shatter-resistant window
- Models with Quick Disconnect (QD) connectors provide trouble-free installation
- Energy-efficient with an output up to 130 lumens per watt
- 0-10 V dimming so users can control light levels to their preferred brightness
- Optional LCS10 controller for plug-and-play installation

Series	Tier	Voltage	Cascadable	Color	CRI	Lighted Length (mm)	Window	Mounting	Control	Housing	Connector
WLB72	**B**	**Z**	**C**	**W**		**1200**	**D**		**A**		**CT**
	B = Basic **I** = Inspection	**Z** = AC	**C** = Cascadable **X** = Non-cascadable	**W** = Daylight white **WW** = Warm white	**Blank** = 80 CRI **H** = High CRI*	**1200** **2400**	**D** = Diffuse** **E25** = Eye shield	**Blank** = No mounting rail **R** = Mounting rail	**A** = 0-10 V analog dimming **Blank** = White housing **BK** = Black housing		**CT** = Conduit entry **QPA0.5** = 0.5 m pigtail, end **QPB0.5** = 0.5 m pigtail, side **QPA1** = 1 m pigtail, end **QPB1** = 1 m pigtail, side **QPC1** = 1 m pigtail, rear **QPA2** = 2 m pigtail, end **QPB2** = 2 m pigtail, side **QPC2** = 2 m pigtail, rear

*Available in Daylight White models only
**Not available with Inspection models





Lighted Length (L)
1200 mm 2400 mm

Supply Voltage	120 to 277 V AC
Lumens	Diffuse: 6800–1300 Eye Shield: 3800–7600
Construction	Housing: Galvanized steel with corrosion resistant polyester powder coat Window: Polycarbonate End caps: Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP20
Certifications	

Brackets



LMBWLB72F
Surface Mount



LMBWLB72RAS
Angular Adjustment



LMBWLB72HK5
Suspended

Controller



LCS10
Four zone control

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



WLB92

Industrial LED Strip Lights

- Increases worker productivity and ergonomics with bright, high-quality, uniform light
- Durable light stands up in your environment with a rugged metal housing and shatterproof light cover
- Save maintenance time and lower utilities expenses with long-life, energy-efficient LEDs
- Flexibility to place light where needed with AC and DC models
- Easy installation with a variety of mounting options: surface, swivel, snap, and hanging brackets

DC Models

Series	Cascadable	Color	Lighted Length (mm)	Control	Connector
WLB92	**X**		**550**	**PB**	**Q**

- **X** = Non-cascadable
- Color: **Blank** = Daylight white, **WW** = Warm white, **R** = Red, **G** = Green, **B** = Blue, **Y** = Yellow
- Lighted Length (mm): **550**, **1100**
- **PB** = Switch, dimming knob*; **PWM** = Pulse Width Modulation dimming
- **Blank** = 2 m integral cable; **Q** = M12 integral QD

QD models require mating cordset

*Models include dimming knob for manual intensity control

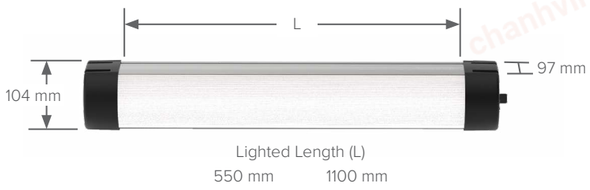
AC Models

Series	Voltage	Cascadable	Color	Lighted Length (mm)	Control	Connector	Plug Type† (1.8 m cable)
WLB92	**Z**	**C**		**550**	**PB**	**QM**	**B**

- **Z** = AC
- **C** = Cascadable
- Color: **Blank** = Daylight white, **WW** = Warm white, **R** = Red, **G** = Green, **B** = Blue, **Y** = Yellow
- Lighted Length (mm): **550**, **1100**
- **A** = 0–10 V analog dimming (CT models); **PB** = Switch, dimming knob (AC QM models)
- **QM** = AC*; **CT** = Conduit entry**
- Plug Type† (1.8 m cable):
  - **B** = North & Central America, Japan, Taiwan
  - **D** = India, Sri Lanka, Nepal, Namibia
  - **EF** = France, Belgium, Slovakia, Tunisia, Germany, Austria, Netherlands, Spain, S. Korea, Turkey, Poland
  - **C** = AC connector with flying leads
  - **Blank** = No power cord

*Models with a connector include ON/Off switch as well as dimming knob for intensity control
**Conduit entry models include dimmability via a 0 to 10 V input circuit
†Only needed for AC QM models

Dimming Accessories page 110



Supply Voltage	DC: 24 V DC, AC: 100 to 277 V AC
Lumens	405–7150*
Construction	Housing: Anodized aluminum, Window: Polycarbonate
Operating Conditions	–40 to +70 °C
Environmental Rating	IP40
Certifications	CE, cULus LISTED, UKCA

*Depending on length and color

Brackets



LMBWLB92



LMBWLB92CLIP



LMBWLB92S



LMBWLB92HK5
Suspended



LMBWLB92RAS



BL60

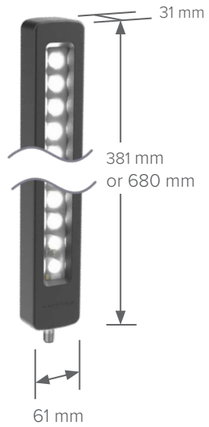
Sealed LED Bar Lights

- Helps vision systems identify defects and scan targets by completely illuminating objects in front of camera with bright, lensed LEDs
- Provides long-lasting performance and minimal replacement costs with sealed, IP67/IP69K-rated aluminum housing; -40° to +50° temperature range; and three window options: clear or diffused polycarbonate and borosilicate glass
- Delivers ideal application intensity with adjustable PWM/strobing and 1 to 10 V dimming control
- Enables comprehensive inspection capabilities with multiple color options: red, green, blue, white, UV, and IR

Series	Color	Length (mm)	Window	Lensing	Control	Sealed	Connection
BL60	**W**	**340**		**L14**	**A**	**S**	**Q**

- Color: **W** = Daylight white (5000K), **R** = Red, **G** = Green, **B** = Blue, **I** = Infrared, **UV365** = 365 nm Ultraviolet, **UV395** = 395 nm Ultraviolet
- Length (mm): **340**, **640**
- Window: **Blank** = Clear polycarbonate, **D** = Diffused polycarbonate, **G** = Borosilicate glass
- Lensing: **L14** = 14-degree FWHM narrow lenses (Visible and IR models only), **L30** = 30-degree FWHM wide lenses (UV models only)
- Control: **A** = Adjustable PWM/strobe and 1 to 10 V dimming
- Sealed: **S** = Sealed
- Connection: **Q** = 5-pin M12 integral male quick disconnect

QD models require mating cordset



Supply Voltage	12 to 30 V DC
Lumens	300 to 2600*
Construction	Housing: Black e-coated aluminum housing Window: Clear or diffuse polycarbonate window, or clear borosilicate glass window
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP68g, IP69K
Certifications	cULus LISTED

*Depending on length and color

Brackets



LMBWLC60F



LMBWLC60RA



LMBWLC60RAS
4 Bracket Swivel Kit, can mount with SMBMAG3 magnet



LMBWLC60MAG*
Magnetic Mount
*Do not use with stainless steel models. Protective cover for magnet sold separately (SMBWLSMAGR).

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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WLC60

Heavy Duty LED Strip Lights

- Oil, chemical, and water resistant with IP67, IP68G, and IP69K ratings
- High brightness paired with advanced glare-reducing optics
- Easy to install with a wide variety of mounting solutions
- Resistant to vibration and shock
- Input voltage of 12–30 V DC
- Integral 4-pin M12 quick disconnect connector
- Models have four discrete intensity level settings

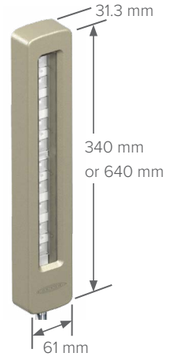
Series	Cascadable	LED Color	Length (mm)	Window	Mounting Type	Construction	Connector Exit	Control	Connector
WLC60	**X**	**W**	**340**	**G**		**A**			**Q**
C = Cascadable **X** = Non-cascadable		**W** = Cool white **WW** = Warm white** **R** = Red** **G** = Green** **B** = Blue** **Y** = Yellow**	**340*** **640**	**Blank** = Polycarbonate **G** = Borosilicate glass	**Blank** = Base mount **F** = Flush mount**	**A** = Nickel-plated aluminum	**Blank** = Side exit **R** = Rear exit**	**Blank** = None **PWM** = Pulse Width Modulation dimming	**Blank** = 2 m integral cable** **Q** = M12 integral QD

*Flush and rear exit models available in 340 mm length only
**Not available with PWM models

QD models require mating cordset

Dimming Accessories page 110

WLC60



WLC60 Flush



Supply Voltage	12 to 30 V DC
Lumens	340 mm = 1300 640 mm = 2600
Construction	Housing: Nickel-plated aluminum Window: Polycarbonate or borosilicate glass
Operating Conditions	–40 to +70 °C
Environmental Rating	IP68, IP68G, IP69K per DIN 40050
Certifications	CE cULus LISTED UKCA

Brackets



LMBWLC60F



LMBWLC60RA



LMBWLC60RAS
4 Bracket Swivel Kit, can mount with SMBMAG3 magnet



LMBWLC60MAG*
Magnetic Mount
*Do not use with stainless steel models. Protective cover for magnet sold separately (SMBWLSMAGR).



WLH60

High Temperature LED Strip Lights

- Approved for use in environments up to 100 °C
- IEC IP67, IEC IP68G, and IEC IP69K rated
- Rugged and durable for harsh environments
- Resists high pressure, high-temperature washdown, oils, and many chemicals
- Easy to install with a wide variety of mounting solutions
- Highly resistant to vibration and shock

Series	Cascadable	LED Color	Length (mm)	Window	Construction
WLH60	**X**	**W**	**340** **640**	**G**	**B**
	X = Non-cascadable	**W** = Cool white		**Blank** = Polycarbonate **G** = Borosilicate glass	**B** = Black e-coated aluminum

NOTE: Connection for all WLH60 models is a 2 m (6.5') integral FEP cable

Dimming Accessories page 110



Supply Voltage	21 to 28 V DC
Lumens	340 mm = 1150 640 mm = 2300
Construction	Housing: Black electro-coated aluminum Window: Polycarbonate or borosilicate glass
Operating Conditions	–40 to +100 °C
Environmental Rating	IP68, IP68G, IP69K per DIN 40050
Certifications	CE cULus LISTED UKCA

Brackets



LMBWLC60F



LMBWLC60RA



LMBWLC60RAS
4 Bracket Swivel Kit, can mount with SMBMAG3 magnet



LMBWLC60MAG*
Magnetic Mount
*Do not use with stainless steel models. Protective cover for magnet sold separately (SMBWLSMAGR).

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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S15WL

In-Line Work Lights

- Miniature devices providing 360-degree illumination to be added easily to existing components
- All signals pass through, simplifying installation
- Designed for enclosure or area lighting
- Rugged, overmolded design meets IEC IP65, IEC IP67, and IEC IP68
- Dimmable via two-wire PWM input

Color	Connection	Model
Cool white	4-pin male/female M12 quick disconnect	**S15WLWQ**

PRO EDITOR SOFTWARE
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Supply Voltage	12 or 24 V DC
Lumens	55
Construction	Coupling Material: Nickel-plated brass Connector Body: PVC translucent white Removable cap covering female quick disconnect included
Operating Conditions	–40 to +45 °C
Environmental Rating	IP65, IP67, IP68, NEMA/UL Type 1
Certifications	CE cULus LISTED UKCA

Brackets



LMBM12MAG
Attaches to
M12 cordset end



LMBM12SP
Attaches to
M12 cordset end



LMBS15MAG
Magnetic Mount



LMBS15SP



GS60

Guide Spotlights

- Reduce errors, improve productivity, and enhance operator interaction with increased visibility provided by the bright, focused spot
- Enhance worker comfort and safety by easily setting lighting levels to match the environment and application needs
- Reliably use in harsh environments with the long-lasting, impact resistant, durable anodized aluminum housing and polycarbonate window

Color	Control	Models
Daylight White - 5000K	High/low/off	**GS60WL4Q**
Red		**GS60RL4Q**
Green		**GS60GL4Q**
Blue		**GS60BL4Q**
Yellow		**GS60YL4Q**
Infrared (IR)		**GS60IL4Q**
Ultraviolet (UV) - 395 nm		**GS60UV395L8Q**
Daylight White - 5000K	Adjustable PWM/strobe and 1 to 10 V dimming	**GS60WL4AQ**
Infrared (IR)		**GS60IL4AQ**
Ultraviolet (UV) - 395 nm		**GS60UV395L8AQ**

PRO EDITOR SOFTWARE
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Supply Voltage	12 to 30 V DC
Construction	Housing: Black anodized aluminum Window: Polycarbonate Connector: Nickel-plated quick-disconnect M30 mounting nut: Black anodized aluminum
Operating Conditions	–40 to +50 °C (–40 to +122 °F)
Environmental Rating	IP66, IP67

Brackets



SMB30A



SMBAMS30P



SMBAMS30RA



SMB30MM



ACC-GS60
M48 x 2 front mounting
knurl nut

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



WL50S

LED Spot Lights

- Highly concentrated, focused light available in three colors (white, red, or green)
- Lenses come in three angles to cover an area of concentration
- Illuminates a large area with an even pattern of light and no shadows
- Cabled and quick-disconnect models available
- 56 mm diameter with flat profile and 30 mm mounting base
- Rugged sealed housing rated to IP69K
- Available in a chemically resistant 316 stainless-steel housing for use in harsh environments

Black Anodized Aluminum Models

Series	LED Color	Lens Angle	Connector
WL50S	**W**	**L11**	**Q**
	W = White **R** = Red **G** = Green	**L5** = ±5° (small) **L11** = ±11° (large) **L20** = ±20° (largest)	**Blank** = 2 m integral cable **Q** = M12 integral QD

QD models require mating cordset

Stainless Steel Models

Series	LED Color	Housing	Window Material	Lens Angle	Connector
WL50S	**W**	**SS**	**G**	**L11**	**Q**
	W = White **R** = Red **G** = Green	**SS** = Stainless Steel	**Blank** = Acrylic **G** = Glass	**L5** = ±5° (small) **L11** = ±11° (large) **L20** = ±20° (largest)	**Q** = M12 Integral QD

QD models require mating cordset

Dimming Accessories page 110

Black Anodized Aluminum



Stainless Steel



Supply Voltage	12 to 30 V DC
Lumens	100–295*
Construction	Housing: Black anodized aluminum or stainless steel with FDA grade silicone gasket and Viton® o-ring seal Window: Polycarbonate or glass window Connector: Nickel-plated QD connector or PVC-jacketed cable Mounting Nut: Black zinc-plated steel or stainless steel mounting nut
Operating Conditions	–20 to +50 °C
Environmental Rating	IEC IP67, IP69K per DIN 40050
Certifications	CE, cULus LISTED, UKCA, cULus E476617

*Depending on lens angle and color

Brackets



SMB30FA



SMB30SC



SMBAMS30P



SMBAMS30RA



WL50-3

LED Work Lights

- Designed for desk, work station, enclosure, and small area lighting with optional flex arm mount for adjustable, industrial task lighting
- Standard or touch models available
- Touch models can be actuated with bare hands or gloves via the integrated capacitive switch on the face of the model
- Flat-mount or 30 mm base-mount models available
- Cabled, quick-disconnect, and terminal connection models available
- High lumen output and low power consumption at less than 3 watts

Series	Mounting		Generation	Function	Color	Connector
WL50	**F**	**–**	**3**	**T**	**W**	**Q**
	F = Flat mount **Blank** = M30 threaded base		3rd generation	**T** = Touch **Blank** = Non-touch	**W** = Daylight white (5000K)	**Q** = M12 integral QD **QP** = 150 mm M12 QD **Blank** = 2 m cable **W/30** = 9 m cable **T** = Screw terminal (base mount option only)

Dimming Accessories page 110

Flat-Mount



30 mm Base Mount



Supply Voltage	12 to 30 V DC
Lumens	300
Construction	Housing: Polycarbonate Connector: Nickel-plated QD or PVC-jacketed cable
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65, IP67, and IP69K per DIN 40050-9
Certifications	CE, cULus LISTED, UKCA, cULus E476617

Brackets



SMB30A



SMB30MM



SMB30SC



LMB30LP



LMB30LPC



FLX18 Flex Arm Mounts
See page 34 for more information

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



Flex Arm Lights

Bright LED Task Lights

- Designed for desk, work station, enclosure, and small area lighting
- Excellent, even light distribution for close-range lighting applications
- WL50 models offer touch and PWM control for on/off and dimming functions
- Touch models can be actuated with bare hands or gloves via the integrated capacitive switch on the face of the light
- Plug-and-play with 300 mm M12 cable connection directly into PSW-24-1 or other power supply (sold separately)
- 457 mm (18 in) long, vinyl-coated flexible arm

WL50



Supply Voltage	12 to 30 V DC
Lumens	300
Construction	Housing: Polycarbonate Flex Arm: Vinyl coated material
Operating Conditions	–40 to +50 °C
Environmental Rating	The illuminated side of the terminal models meets IP65, IP67, and IP69K per DIN 40050-9 when installed in an enclosure. Terminal connection points meet IEC IP00.
Certifications	CE, cULus LISTED, UKCA, cULus E470617

S18



Supply Voltage	9 to 30 V DC
Lumens	20
Construction	Housing: Polycarbonate Flex Arm: Vinyl coated material
Operating Conditions	–40 to +60 °C
Environmental Rating	Indicator side of the terminal models meet IP67 and IP69K per DIN 40050-9 when installed in an enclosure. Screw connection points meet IEC IP00.
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB22A



SMBFLXCLAMPD



SMBFLXMAGR
Protective Magnet Cover

Light	Base Connection or Bracket		Control	Models
WL50		Magnet	Touch	**K-FLX18-50TWDMAGDQP**
			No button	**K-FLX18-50WDMAGDQP**
		1/2-14 NPSM	Touch	**K-FLX18-50TW12XQP**
			No button	**K-FLX18-50W12XQP**
		2 × 1/4-20W 1.375 spacing	Touch	**K-FLX18-50TWDXQP**
			No button	**K-FLX18-50WDXQP**
		Flange	Touch	**K-FLX18-50TW12FQP**
			No button	**K-FLX18-50W12FQP**
		Quick connect	Touch	**K-FLX18-50TWQCXQP**
			No button	**K-FLX18-50WQCXQP**

Dimming Accessories page 110

S18		Magnet	No button	**K-FLX18-18WDMAGDQP**
		1/2-14 NPSM		**K-FLX18-18W12XQP**
		2 × 1/4-20W 1.375 spacing		**K-FLX18-18WDXQP**
		Flange		**K-FLX18-18W12FQP**
		Quick connect		**K-FLX18-18WQCXQP**

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



WLC90

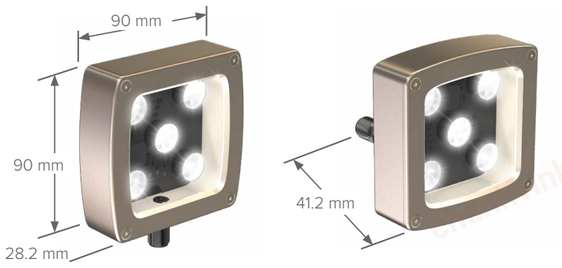
Heavy-Duty LED Lights

- Oil, chemical, and water resistant with IP67, IP68G, and IP69K ratings
- Vast operating temperature range internal monitoring circuit dims the LEDs to a safe level at extreme temperatures
- Three lens choices to suit many application needs
- Pan-and-tilt brackets for versatile mounting to direct the light in any direction
- Models have three discrete intensity level settings

Series	LED Color	Window Material	Lens Angle	Connector Exit	Control	Connector
WLC90	**W**	**G**	**L15**			**Q**
	W = Cool white	**Blank** = Polycarbonate **G** = Borosilicate glass	**L8** = ±8° (small) **L15** = ±15° (large) **L30** = ±30° (largest)	**Blank** = Side exit **R** = Rear exit	**Blank** = None **PWM** = Pulse Width Modulation	**Blank** = 2 m integral cable* **Q** = M12 integral QD

QD models require mating cordset
*Not available with PWM models

Dimming Accessories page 110



Supply Voltage	12 to 30 V DC
Lumens	625
Construction	Housing: Nickel-plate aluminum Window: Polycarbonate or borosilicate glass
Operating Conditions	–40 to +70 °C
Environmental Rating	IP68, IP68G, IP69K per DIN 40050
Certifications	CE, cULus LISTED, UKCA

Brackets



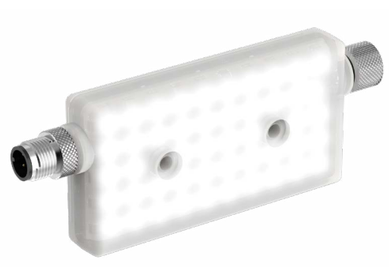
LMBWLC90PT
Rear-Exit Models



LMBWLC90PT
Side-Exit Models



SMBAMS70AS

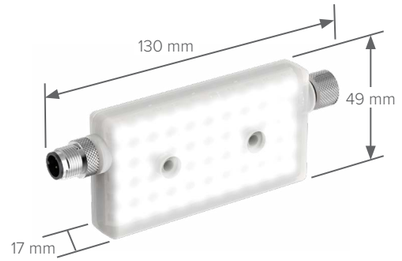


WLR95

Compact Area Lights

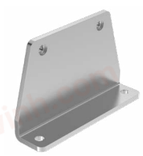
- Compact footprint delivers exceptional illumination for enclosures, conveyors, machines, and vision applications
- Daisy chain multiple units effortlessly with the unique double-ended cascade feature
- When it comes to lumens per dollar spent, it outshines the competition, making it the perfect fixer for any lighting oversight
- Featuring an impressive output relative to its size, this small, affordable light fits effortlessly into any space
- Engineered with a rugged, overmolded exterior and built to withstand harsh conditions

Series	Cascadable	Color	Window	Control	Connection
WLR95		**W**			**Q**
	Blank = Cascadable	**W** = Cool white (6500K)	**Blank** = Clear	**Blank** = Hi/low/off	**Q** = 4-pin M12 integral QD



Supply Voltage	12 to 30 V DC
Lumens	600
Construction	Connector: Nickel-plated brass Housing: TPU (Removable cap covering female quick disconnect included)
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65, IP67, IP68, UL Type 1
Certifications	CE, cULus LISTED, UKCA, UL MX-NOM

Brackets



SMBR90RA
Right-angle bracket



SMBR90RAMAG
Right-angle magnetic bracket



LMBR95MAG
Magnetic mounting bracket kit

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



WLA-2

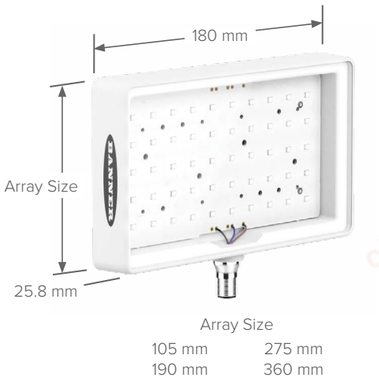
LED Area Lights

- An LED dense array with high output ideal for area lighting, machine lighting, and machine vision
- Illuminates a large area with an even pattern of light and no shadows
- Rugged thermoplastic housing rated to IP69K for heavy duty washdown
- Encapsulated housing option rated IP68 for prolonged exposure to water and submersion
- Lensed models available for intense, close-range inspection or long-range projection
- Available in four sizes

Series	Color	Array Size (mm)	Window Material	Lens Angle*	Control	Connector
WLA-2	**W**	**105 x 180**	**D**			**Q**
	W = Daylight white **WW** = Warm white**	**105 x 180** **190 x 180** **275 x 180** **360 x 180**	**Blank** = Clear **D** = Diffuse **E** = Encapsulated	**Blank** = No lenses **L30** = ±30°	**Blank** = Hi/Low/Off **PWM** = Pulse Width Modulation	**Q** = 4-Pin M12 integral QD QD models require mating cordset

*No lens option on encapsulated or diffuse window models
**No warm white option on encapsulated models

Dimming Accessories page 110



Array Size

105 mm	275 mm
190 mm	360 mm

Supply Voltage	12 to 30 V DC
Lumens	800–4100*
Construction	Housing: PBT Window: Polycarbonate or polyurethane encapsulated Connector: Nickel-plated brass
Operating Conditions	Clear and Diffuse: –40 to +70 °C Encapsulated: –20 to +50 °C
Environmental Rating	Clear and Diffuse: IP67 and IP69K per DIN 40050-9 Encapsulated: IP67, IP68, and IP69K per DIN 40050-9
Certifications	CE, cULus LISTED, UKCA, UL MX NOM

*Depending on length and color

Brackets



SMBBSSM

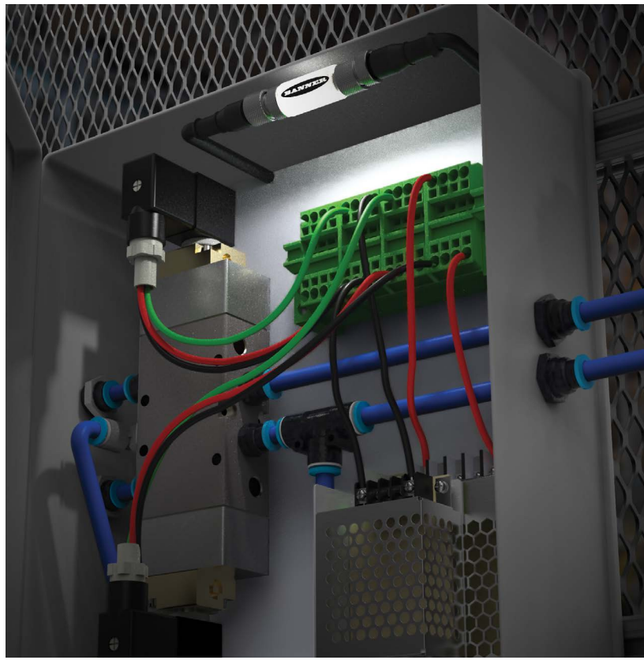


SMBBSRA



SMBWLAMAG
Magnetic Mount
(SMBWLAMAGR Protective cover for magnet sold separately)







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Tower Lights
Selection Guide










	pg. 46	pg. 48	pg. 52	pg. 54	pg. 47	pg. 45	pg. 42	pg. 43
Series Name	**TL30**	**TL50**	**TL70**	**TLF100**	**TL50 Andon**	**CL50**	**TL15**	**WLS27**
Segment Diameter (mm)	30	50	70	100	50	50	15	27
Mounting Hole Diameter (mm)	30	30	30	–	–	30	–	–
AC/DC	DC	AC or DC	AC or DC	DC	DC	DC	DC	DC
IP Rating	IP65	IP65, IP67	IP65	IP65, IP69K	IP54	IP67	IP66, IP67, IP68	IP66, IP67, IP69K
Programmable		✓	✓	✓		✓		✓
Communication Protocol		IO-Link®	IO-Link®, Modbus, EtherNet/IP, PROFINET	IO-Link®		IO-Link®		IO-Link®
Audible	✓	✓	✓	✓	✓	✓	✓	
Daylight Visible		✓		✓				
Wireless			✓		✓			
Modular Construction			✓				✓	



Programmable LED indicators offer multiple color choices in a single housing

chanhvinh.com



TL15

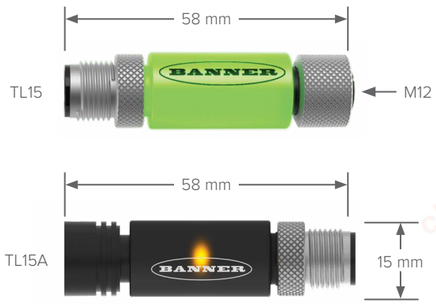
In-Line Tower Light Indicators

- Modular 15 mm diameter indicator
- Multiple devices can be connected together to form a tower light
- Overmolded design for use in harsh environments
- Green, yellow, red, and blue models, each with a specific activation pin
- All signals pass through an M12 in-line connection, simplifying installation without disruption to I/O
- TL15A offers additional audible capability so users can receive color status and audio alerts locally

TL15 In-Line Tower Light Models

Color (Input Active Pin)	Models
Green (pin 4)	**TL15G4Q**
Yellow (pin 1)	**TL15Y1Q**
Red (pin 2)	**TL15R2Q**
Blue (pin 4)	**TL15B4Q**
Green (pin 1)	**TL15G1Q**
Yellow (pin 2)	**TL15Y2Q**
Red (pin 5)	**TL15R5Q**

Color (Input Active Pin)	Models
Red (pin 1)	**TL15R1Q**
Red (pin 4)	**TL15R4Q**
Green (pin 4), yellow (pin 1), red (pin 2)	**TL15GYRQ**
Blue (pin 4), green (pin 1), yellow (pin 2), red (pin 5)	**TL15BGYRQ**
Audible, no color (pin 5)	**TL15A5Q**
Audible, no color (pin 1)	**TL15A1Q**
Audible, no color (pin 2)	**TL15A2Q**



Supply Voltage	12 or 24 V DC
Bimodal Inputs	PNP/NPN
Vibration and Mechanical Shock	Meets IEC 60068-2-6 requirements Vibration: 10 to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell Meets IEC 60068-2-27 requirements Shock: 15G 11 ms duration, half sine wave
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, IP68, NEMA/UL Type 1
Certifications	

Brackets



LMBM12MAG
Attaches to M12 cordset end



LMBM12SP
Attaches to M12 cordset end



LMBS15MAG
Magnetic Mount



LMBS15SP



WLS27

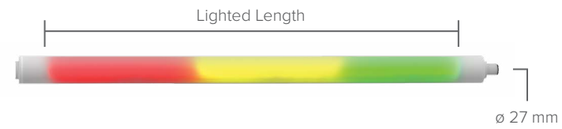
Segmented LED Strip Lights

- Ultra-bright, multi-segment indicator
- Models with two or three segments available in two different segment sizes
- Rugged, water-resistant IP69K per DIN 40050-9 rating
- Power can be daisy-chained to multiple lights
- Heavy diffuse housing option provides softer, more uniform light

Series	Cascadable	Color Segments and Length		Window	Construction	Voltage	Connector
WLS27	**X**	**GYR3S-0850**	—	**D**	**S**	**24**	**Q**
	C = Cascadable **X** = Non-cascadable	**GRX2S-0285** = Two 145 mm segments; green, red **GRX2S-0570** = Two 285 mm segments; green, red **GYR3S-0430** = Three 145 mm segments; green, yellow, red **GYR3S-0850** = Three 285 mm segments; green, yellow, red		**D** = Diffuse plastic **H** = Heavy diffuse plastic	**S** = Sealed	**24** = 24 V DC	**Q** = M12 integral QD

QD models require mating cordset

PRO SOFTWARE
Programmable models page 76



Lighted Length (L)
285 mm
430 mm
570 mm
850 mm

Supply Voltage	24 V DC
Lumens	70–570*
Construction	Inner Housing: Clear anodized aluminum Outer Housing: FDA grade copolyester
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, IP69K per DIN 40050-9
Certifications	

*Depending on length and color

Brackets



LMBWLS27EC
Clear Copolyester



LMBWLS27H



LMBWLS27T



LMBWLS27U
Clear Copolyester
(Also available with magnet LMBWLS27U-MAG)



LMBWLS27SP
Clear Copolyester

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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CL50 Series

50 mm Multicolor Column Lights

- Rugged, versatile, and easy-to-install multicolor indicators
- Bright, easy-to-see operator guidance and indication of equipment status
- Audible models available

Standard Models

Series	Supply Voltage	Color Sequence 1	Color Sequence 2	Color Sequence 3	Audible Models Only	Inputs	Housing Color	Connection
CL50		**G**	**R**	**Y**	**A**	**P**		**Q**
	Blank = 18 to 30 V DC	**G** = Green **Y** = Yellow **R** = Red **B** = Blue **W** = White			**Blank** = None (IP67) **A** = Audible (IP50) **ALS** = Sealed audible continuous tone **AOS** = Omni-directional sealed audible continuous tone	**Blank** = AC **N** = NPN **P** = PNP	**Blank** = Black **C** = Gray	**Q** = M12 integral QD QD models require mating cordset



Supply Voltage	18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	Non-Audible: –40 to +50 °C Audible: –20 to +50 °C
Environmental Rating	General-Purpose and Sealed Audible: IEC IP67 Standard Audible: IEC IP50
Certifications	

Brackets



SMB30MM

SMB30A

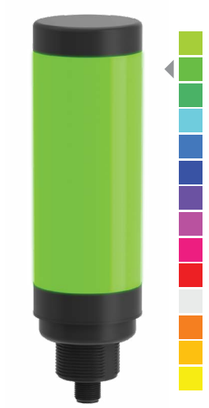
SMBAMS30P

SMB30RAVK

SA-FFB12
Flush Foldable Bracket

LMB30RA
Sealed Right-Angle Brackets

LMBE12RA
Sealed Right-Angle Brackets
(Tube adapter and standoff pipe required)



Programmable Models

Same Functionality as Standard with Additional Features Below

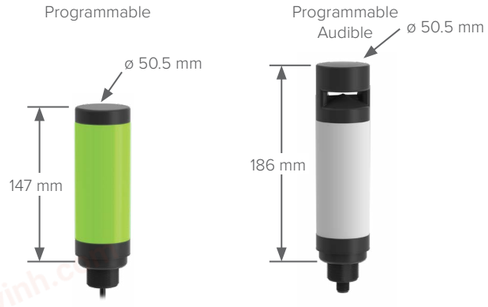
- Programmable using Pro Editor Software or dynamically controlled with IO-Link
- Customized indication possibilities, including color, flash patterns, and light intensity
- Audible models available with sealed, omni-directional audible element

Programmable Models

Series	Color and Input	Audible Alarm	Connection
CL50P	**RGB7**	**A**	**Q**
	RGB7 = RGB multicolor (7 colors)	**Blank** = None **A** = Omni-directional sealed audible	**Blank** = 1.2 m integral cable **Q** = 5-pin M12 integral QD

Programmable Models with IO-Link

Series	Audible Alarm	Control	Connection
CL50P	**A**	**K**	**Q**
	Blank = None **A** = Omni-directional sealed audible	**K** = IO-Link	**Q** = 4-pin M12 integral QD



Supply Voltage	Programmable: 12 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	Non-Audible: –40 to +50 °C Audible: –20 to +50 °C
Environmental Rating	IP65, UL Type 4X
Certifications	

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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TL30

30 mm LED Tower Light with Optional Alarm

- Slim design, affordable, and easy-to-install multi-segment tower lights
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Devices are completely self-contained; no controller needed
- No assembly required; mounting nut and gasket supplied

Series	Tier	Color Position 1*	2*	3	4	5	Audible Alarm	Housing Color	Connection
TL30	**B**	**G**	**Y**	**R**	**X**	**X**	**N**	**X**	**QD**

B = Basic

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

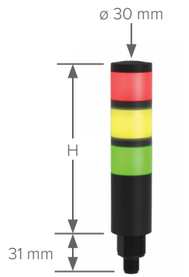
N = None
A = Audible

X = Black

C1 = 1.2 m integral PVC cable
QD = M12 integral 5- or 8-pin QD

QD models require mating cordset

*Position 1 and 2 cannot be X = No Segment



Tower Height (H)

2 colors	100 mm
3 colors	127 mm
4 colors	154 mm
5 colors	181 mm

Supply Voltage	12 to 30 V DC Maximum current per LED segment: 40 mA Omni-Directional Sealed Audible Alarm: 20 mA maximum current
Construction	Base, Segments, and Audible: UV-stabilized polycarbonate Grommet: TPV Mounting Nut: PBT Sealing Gasket: PVC/NBR/CR
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65*
Certifications	

*Models also meet UL Type 4X when mounted in suitable enclosure

Brackets



SMB22A



SMB22FVK



SMBAMS22P



SMBAMS22RA



SMB22RAVK



LMBE12RA35



LMBE12RA45



SA-FFB12
Flush Foldable Bracket



LMBE12RA
Sealed Right-Angle Brackets
(Tube adapter and standoff pipe required)



TL50 Andon

50 mm Pre-assembled Tower Lights

- Model options for 3 or 4 color segments, with or without omnidirectional audible
- Tower light segments appear grey when powered off, eliminating false indication from ambient conditions
- Available in two color combinations: green, yellow, and red or blue, green, yellow and red
- Simple to install, pre-assembled devices that are available in 3 lengths
- Pre-assembled control box has capacitive touch buttons as well as status LEDs to mimic the tower light status color and animation

Preassembled Tower Light with Control Box Models

Series	Activation Method	Number of Touch Inputs		Tower Light Model	LED Colors	Audible	Stand-off Length (mm)	Connection
LCA130	**T**	**3**	–	**TL50**	**GYR**		**300**	**Q**

T = Touch

3
4
5

GYR = Green, yellow, red
BGYR = Blue, green, yellow, red

Blank = None
A = Audible (input 4 or 5)
AJ = Audible joined (input 3 or 4)*

300
600
900

Q = 4-pin M12 integral QD

QD models require mating cordset

Standalone Control Box Models

*Audible is activated along with the top segment (red)

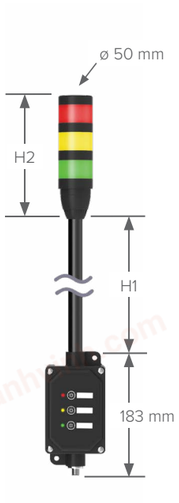
Series	Activation Method	Number of Touch Inputs	Connection
LCA130	**T**	**5**	**Q**

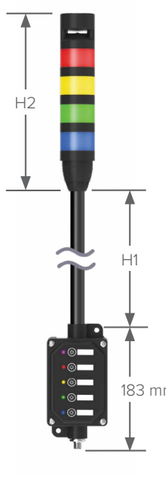
T = Touch

4
5

Q = 5-pin M12 integral QD (output connector 8-pin M12)

QD models require mating cordset





Standard
Tower Light Height (H2)

3 Segments	181 mm
4 Segments	222 mm

Audible
Tower Light Height (H2)

3 Segments	220 mm
4 Segments	261 mm

Stand-Off Pole Height (H1)
300 mm
600 mm
900 mm

Supply Voltage	18 to 30 V DC
Audible Intensity	92 dB at 1 m
Construction	Polycarbonate
Operating Conditions	Non-Audible: –40 to +50 °C Audible: –20 to +50 °C
Environmental Rating	Assembly: IP54 Stand-alone tower light: IP65
Certifications	

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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TL50 Series

50 mm General Purpose Tower Lights

- Bright, uniform lighted segments with ten color choices available
- Available with standard, sealed, or omni-directional audible
- DC models work down to 12 volts, allowing for use in battery-powered mobile equipment
- Audible alarm: continuous, pulsed, and staccato models available
- Omni-directional audible models provide clear annunciation in the noisiest environments

PRO EDITOR SOFTWARE
Programmable models page 50

Standard Models

Inputs	Audible	Connection	LED Colors	Models
Bimodal (NPN or PNP)	None	4-pin M12 integral QD	Red	**TL50RQ**
			Green, red	**TL50GRQ**
			Green, yellow, red	**TL50GYRQ**
		5-pin M12 integral QD	Blue, green, yellow, red	**TL50BGYRQ**
		8-pin M12 integral QD	White, blue, green, yellow, red	**TL50WBGYRQ**
	Standard	4-pin M12 integral QD	Red	**TL50RAQ**
			Green, red	**TL50GRAQ**
		5-pin M12 integral QD	Green, yellow, red	**TL50GYRAQ**
		8-pin M12 integral QD	Blue, green, yellow, red	**TL50BGYRAQ**
			White, blue, green, yellow, red	**TL50WBGYRAQ**

Select models available with AC supply voltage. Search TL50Z.



Tower Height (H)

1 segment	61 mm
2 segments	102 mm
3 segments	143 mm
4 segments	183 mm
5 segments	224 mm
6 segments	265 mm
7 segments	305 mm

Supply Voltage	Standard: 18 to 30 V DC or 100 to 240 V AC Compact: 12 to 30 V DC or 21 to 27 V AC; 100 to 240 V AC Beacon: 12 to 30 V DC, 24 V AC, or 100 to 240 V AC
Construction	Bases and Covers: ABS Light Segment: Polycarbonate
Operating Conditions	General-Purpose: –40° to +50 °C Standard and Sealed Audible: –20° to +50 °C
Environmental Rating	General-Purpose and Sealed Audible: IP67 Standard Audible: IP50
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30MM



SMB30A



SMBAMS30P



SMB30RAVK



SA-FFB12
Flush Foldable Bracket



LMB30RA
Sealed Right-Angle Brackets



LMBE12RA
Sealed Right-Angle Brackets
(Tube adapter and standoff pipe required)



TL50BL and TL50C Models

50 mm Beacon and Compact Tower Lights

- Housing is UV stabilized, making it suitable for use in outdoor environments
- Highly visible indication for indoor or outdoor applications
- Compact, stylish design with rotating and flashing options
- Compact tower lights are half the height of standard TL50 models
- Models available with rugged, water-resistant IP67 housing

PRO EDITOR SOFTWARE
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Standard Beacon Models

Colors (C) /Function (F)

Housing	Supply Voltage	C1	F1	C2	F2	C3	F3	C4	F4	C5*	F5*	Audible Alarm	Control	Housing Color	Connection
TL50BL		**G**	**2**	**Y**		**R**	**1**								**Q**

Blank = 12 to 30 V DC
Z = 100 to 240 V AC

Colors
G = Green
Y = Yellow
R = Red
B = Blue
W = White
Blank = Not used

Function
Blank = ON solid
1 = Rotating
2 = Flashing

*Not available with audible

Blank = None (IP67)
A = Audible (IP50)
ALS = Sealed audible continuous tone
AOS = Omni-directional sealed audible
AOSI = Omni-directional sealed audible with intensity adjust

Blank = Standard

Blank = Black
C = Gray

Blank = 2 m integral cable
Q = M12 integral QD (DC only)
QP = M12 pigtail QD (available with micro pigtail QD for AC models if four segments or less)

QD models require mating cordset

Standard Compact Models

Housing	Supply Voltage	Color Position 1	2	3	4	5	6*	7*	Audible Alarm	Housing Color	Connection
TL50C		**G**	**Y**	**R**							**Q**

Blank = 12 to 30 V DC or 21 to 26 V AC
Z = 100 to 240 V AC

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

*Positions 6 and 7 not available in AC models. Position 7 not available with audible.

Blank = Black
C = Gray

Blank = 2 m integral cable
Q = M12 integral QD (DC only)
QP = M12 pigtail QD (available with micro pigtail QD for AC models if 4 segments or less)

QD models require mating cordset

Laser Marking Available

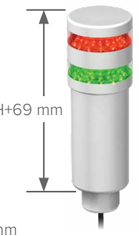
Audible Alarms



Beacon



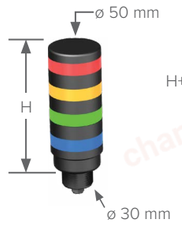
Beacon
100 to 240 V AC



Tower Height (H)

1 color	46.2 mm
2 colors	72.0 mm
3 colors	97.8 mm
4 colors	123.6 mm
5 colors	149.4 mm

Compact



Compact
100 to 240 V AC



Tower Height (H)

1 color	46.2 mm
2 colors	72.0 mm
3 colors	97.8 mm
4 colors	123.6 mm
5 colors	149.4 mm
6 colors	175.2 mm
7 colors	201.0 mm
8 colors	226.8 mm
9 colors	252.6 mm
10 colors	278.4 mm

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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Pro Select Models

50 mm Programmable Tower Lights

- Rugged and easy-to-install three- and four-segment tower lights
- Advanced animations like level, timer, counter, and action mode provide dynamic visual response
- Parameter and process data options on IO-Link models enable fast and complete control of functionality
- Programmable using Banner's Pro Editor Software and Pro Converter Cable
- Audible models available with omni-directional audible element

Pro Select Models

Series	Number of Segments	Audible Alarm	Control	Connection
TL50PS	**3**	**A**		**Q**
	3 = 3 segments **4** = 4 segments	**Blank** = None **A** = Omni-directional sealed audible	**Blank** = None **K** = IO-Link	**Blank** = 1.2 m integral cable* **Q** = 4-pin (IO-Link models) M12 integral QD, 5-pin M12 integral QD, or 8-pin M12 integral QD

QD models require mating cordset
*Not available with IO-Link models

Programmable

Audible Alarms





Tower Height (H)

3 segments	143 mm
4 segments	183 mm

Supply Voltage	Programmable: 10 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Bases and Covers: ABS Light Segment: Polycarbonate
Operating Conditions	Non-Audible: –40 to +50 °C Standard and Sealed Audible: –20 to +50 °C
Environmental Rating	NEMA/UL Type 13 Non-Audible and Sealed Audible: IP67 Standard Audible: IP50
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30MM



SMB30A



SMBAMS30P



SMB30RAVK



SA-FFB12
Flush Foldable Bracket



LMB30RA
Sealed Right-Angle Brackets



LMBE12RA
Sealed Right-Angle Brackets
(Tube adapter and standoff pipe required)



Advanced Feature Models

50 mm Programmable Tower Lights for Specialized Applications

- Up to ten segments (depending on model) for advanced status signaling and high-resolution process details
- Advanced animations like level, timer, counter, and action mode provide dynamic visual response
- Parameter and process data options on IO-Link models enable fast and complete control of functionality
- Discrete models are programmable using Banner's Pro Editor Software and Pro Converter Cable
- Audible models available with standard, sealed, or omni-directional audible element
- Compact and beacon models are shorter and have a more intense display than standard models

Programmable Models

Series	Housing	Number of Segments	Audible Alarm	Housing Color	Connection
TL50P		**3**	**A**		**Q**
TL50P = Pro	**Blank** = Standard **C** = Compact **BL** = Beacon	**1** = 1 segment **2** = 2 segments **3** = 3 segments **4** = 4 segments **5** = 5 segments **6** = 6 segments **7** = 7 segments*	**Blank** = None **A** = Audible **ALS** = Sealed audible continuous tone **AOS** = Omni-directional sealed audible continuous tone **AOSI** = Omni-directional sealed audible continuous tone with intensity adjust	**Blank** = Black **C** = Gray	**Blank** = 2 m integral cable **Q** = M12 integral QD **QP** = M12 pigtail QD

QD models require mating cordset
*Not available with audible

Programmable Models with IO-Link

Housing	Number of Segments	Audible Alarm	Control	Housing Color	Connection
TL50	**3**	**A**	**K**		**Q**
TL50 = Standard **TL50C** = Compact **TL50BL** = Beacon	**1** = 1 segment **2** = 2 segments **3** = 3 segments **4** = 4 segments **5** = 5 segments **6** = 6 segments **7** = 7 segments **8** = 8 segments **9** = 9 segments **10** = 10 segments	**Blank** = None **A** = Audible **ALS** = Sealed audible continuous tone **AOS** = Omni-directional sealed audible continuous tone **AOSI** = Omni-directional sealed audible continuous tone with intensity adjust	**K** = IO-Link	**Blank** = Black **C** = Gray	**Q** = M12 integral QD **QP** = M12 pigtail QD

QD models require mating cordset

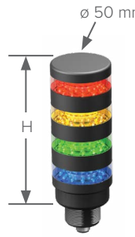
Programmable



Tower Height (H)

1 segment	61 mm
2 segments	102 mm
3 segments	143 mm
4 segments	183 mm
5 segments	224 mm
6 segments	265 mm
7 segments	305 mm

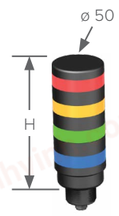
Programmable Beacon



Tower Height (H)

1 color	46.2 mm
2 colors	72.0 mm
3 colors	97.8 mm
4 colors	123.6 mm
5 colors	149.4 mm

Programmable Compact



Tower Height (H)

1 color	46.2 mm
2 colors	72.0 mm
3 colors	97.8 mm
4 colors	123.6 mm
5 colors	149.4 mm
6 colors	175.2 mm
7 colors	201.0 mm
8 colors	226.8 mm
9 colors	252.6 mm
10 colors	278.4 mm

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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TL70 Series

70 mm General Purpose Tower Lights

- Bright, colored LEDs for long-range visibility
- Light segments appear gray when off to eliminate false indication from ambient light
- Modular design and simple wiring for fast field configuration; preassembled models also available
- Top-mounted audible modules from 75 to 101 dB, including multi-tone and programmable audible models, allow for custom alerts or announcements; all work with the same standard bases
- Wireless base and segment models quickly enable remote monitoring and control of status lights; unleash IIoT capability
- Match your machine with a choice of black or gray housing

Bases or Base Models

Housing: **B-TL70** | Power: **Z** | – | Connection: **Q5** | Housing Color: ☐

- Power: **Blank** = DC; **Z** = AC
- Connection: **5** = 2 m, 5-wire integral cable (1–4 modules); **7** = 2 m, 7-wire integral cable (5–6 modules); **Q5** = 5-pin M12 integral QD (DC models) or 5-pin 1/2-20/micro-style integral QD (1–4 AC modules); **Q8** = 8-pin M12 integral QD†
- Housing Color: **Blank** = Black; **C** = Gray

QD models require mating cordset

Segments or Segment Models

Housing: **SG-TL70** | – | Color/Alarm: **R** | Housing Color: ☐

- Color/Alarm: **G** = Green; **Y** = Yellow; **R** = Red; **B** = Blue; **W** = White; **O** = Orange; **A** = Standard audible; **AL** = Loud audible; **ALM** = Loud multi-tone; **AP** = Programmable audible
- Housing Color: **Blank** = Black; **C** = Gray

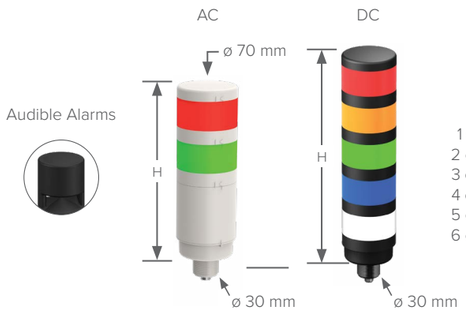
Preassembled Standard Models

Housing: **TL70** | Color**/Position: 1 **G**, 2 **Y**, 3 **R**, 4 **B**, 5 **W**, 6 **O** | Audible*: ☐ | Housing Color: ☐ | Connection: **Q**

- Housing: **TL70** = DC; **TL70Z** = AC
- Color**/Position: **G** = Green; **Y** = Yellow; **R** = Red; **B** = Blue; **W** = White; **O** = Orange
- Audible*: **Blank** = None; **A** = Audible (92 dB); **AL** = Louder audible (85–101 dB); **ALM** = Multi-tone audible** (75–101 dB); **AP** = Programmable audible
- Housing Color: **Blank** = Black; **C** = Gray
- Connection: **Blank** = 2 m integral cable; **T** = Terminal wired†; **Q** = M12 integral QD (DC models) or 1/2-20/micro-style integral QD (AC models); **QP** = M12 pigtail QD†

*For audible only, leave colors blank
**Not available with 6-light models

QD models require mating cordset
†Not available with AC models



Audible Alarms

	Tower Height (H)	
	AC	DC
1 color	155.6 mm	87.6 mm
2 colors	205.3 mm	137.3 mm
3 colors	255.0 mm	187.0 mm
4 colors	304.7 mm	236.7 mm
5 colors	354.4 mm	286.4 mm
6 colors	404.1 mm	336.1 mm

Supply Voltage	12 to 30 V DC or 100 to 240 V AC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65
Certifications	CE, cULus LISTED, UKCA

For compatible brackets see page 50



Programmable Models

Same Functionality as Standard with Additional Features Below

- Programmable series tower lights provide classic segment control as well as advanced status indication that adds nuance to the visual factory
- Multiple communication options make integrating into existing systems easy, allowing users to configure and control color, flashing, rotation, light intensity, and audible alerts, delivering dynamic indication throughout a facility using a choice of models:
  - Modbus RTU: Integrates into Banner's Snap Signal ecosystem for easy equipment monitoring and status communication without a PLC
  - Ethernet communication via EtherNet/IP, Modbus TCP, or PROFINET: Takes advantage of industrial Ethernet's high bandwidth and scalability using separate data and power connections
  - Power over Ethernet (PoE) via with EtherNet/IP, Modbus TCP, or PROFINET: Eliminates the need for a separate power supply by using one cordset connected to a PoE-equipped Ethernet switch
  - IO-Link: Provides almost unlimited custom configuration options, with nearly infinite RGB-blended colors plus advanced animations like run and level modes that provide dynamic response to changing machine conditions

Programmable Bases or Base Models

Series: **B-TL70PK** | – | Connection: **Q** | Housing Color: ☐

- Series: **B-TL70PK** = IO-Link; **B-TL70PM** = Modbus; **B-TL70POE** = PoE; **B-TL70PE** = Ethernet
- Connection: **Q** = 4-pin M12 integral QD; **QP** = 4-pin 150 mm cable with M12 QD*; **QPD** = Single D-code pigtail (PoE models only); **Q2PE** = Dual pigtail (1 A-code and 1 D-code)(Ethernet models only)
- Housing Color: **Blank** = Black; **C** = Gray*

QD models require mating cordset
*Not available with Modbus, PoE, or Ethernet models

Programmable Segments or Segment Models

Series: **SG-TL70P-RGB** | Housing Color: ☐

- Series: **SG-TL70P-RGB** = RGB with IO-Link; **SG-TL70P-L** = RGB with Modbus, PoE, or Ethernet
- Housing Color: **Blank** = Black; **C** = Gray*

Optional Programmable Audible Models

Series: **SG-TL70P** | – | Type**: **A**

- Series: **SG-TL70P** = Modbus, PoE, or Ethernet; **SG-TL70** = IO-Link
- Type**: **A** = Audible; **AL** = Louder audible†; **ALM** = Multi-tone audible†; **AP** = Programmable audible†

†Not available with Modbus, PoE, or Ethernet models.

Preassembled Programmable Models with IO-Link

Series: **TL70P** | Number of Segments: **3** | Audible Alarm: **A** | Control: **K** | Housing Color: ☐ | Connection: **Q**

- Number of Segments: **1** = 1 segment; **2** = 2 segments; **3** = 3 segments; **4** = 4 segments; **5** = 5 segments; **6** = 6 segments
- Audible Alarm: **Blank** = None; **A** = Standard audible**; **AL** = Loud audible**; **AP** = Programmable audible**
- Control: **K** = IO-Link
- Housing Color: **Blank** = Black; **C** = Gray
- Connection: **Q** = 4-pin M12 integral QD; **QP** = 4-pin 150 mm cable with M12 QD

**Not available with six-light models

QD models require mating cordset

Preassembled Programmable Models with Modbus, PoE, or Ethernet

Series: **TL70PM** | Number of Segments: **3** | Audible Alarm: **A** | Connection: **Q**

- Series: **TL70PM** = Modbus; **TL70POE** = PoE; **TL70PE** = Ethernet
- Number of Segments: **3** = 3 segments
- Audible Alarm: **Blank** = None; **A** = Audible
- Connection: **Q** = 4-pin M12 integral QD (Modbus models only); **QPD** = Single D-code pigtail (PoE models only); **Q2PE** = Dual pigtail (1 A-code and 1 D-code)(Ethernet models only)

QD models require mating cordset

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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TLF100 Series

Programmable Flush Mount Tower Lights

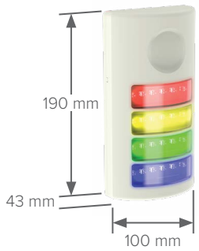
- Rugged, versatile, and easy-to-install three and four-segment tower lights
- Flush mounting allows for easy integration to machines and equipment
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Audible models available with sealed audible element, fourteen selectable audible tones, and audible intensity control
- IO-Link gives full access to color, flashing, and dimming settings, as well as advanced animations like run and level modes, which provide dynamic response to changing machine conditions
- Daylight Visible models use bright, single-color LEDs to provide highly visible indication for indoor or outdoor applications

Programmable Models

Series	Number of Segments	Audible Alarm	Control	Housing Color	Connection
TLF100P	**3**		**K**		**QP**
	3 = 3 segments **4** = 4 segments	**Blank** = None **A** = Sealed audible	**K** = IO-Link **Blank** = Discrete (Pro Editor compatible)	**Blank** = Black **C** = Cool gray	**Blank** = 2 m cable **QP** = 4, 5, or 8-pin 150 mm M12 QD

Programmable Daylight Visible Models

Series	Housing	Color/Position 1	2	3	4	Audible Alarm	Connection
TLF100P	**DL**	**G**	**Y**	**R**			**QP**
	DL = Daylight visible	**G** = Green **Y** = Yellow **B** = Blue		**R** = Red **W** = White **Blank** = None		**Blank** = None **A** = Sealed audible	**Blank** = 2 m cable **QP** = 5 or 8-pin 150 mm M12 QD





Supply Voltage	Programmable: 12 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to 50 °C
Environmental Rating	IP65, IP69K per DIN 40050-9, and UL Type 4X
Certifications	CE, cULus LISTED, UKCA

Brackets



SMBTLF100F
Mounted Vertically



SMBTLF100F
Mounted Horizontally







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Indicators
Selection Guide





	S18L/S22L	S22	K30	K50	K70	K90	K100	GS60	S15L	WLF12	WLS15	WLS27	RLS27	WLS28
Series Name	pg. 59	pg. 61	pg. 62	pg. 65	pg. 68	pg. 71	pg. 72	pg. 79	pg. 58	pg. 74	pg. 75	pg. 76	pg. 77	pg. 78
Housing Diameter (mm)	18 or 22	22	30	50	70	90	100	60	15	12	15	27	27	28
Mounting Hole Diameter (mm)	18/22	22	30	30	30	30	36	30	–	–	–	–	–	–
AC/DC	DC	DC	DC	DC	DC	DC	AC or DC	DC	DC	DC	DC	DC	DC	DC
IP Rating	IP67, IP69K	IP66, IP67, IP69K	IP67, IP69K	IP65, IP67, IP69K	IP65	IP66, IP67	IP69K	IP66, IP67	IP66, IP67, IP68	IP66, IP67, IP69K	IP66, IP67	IP66, IP67, IP69K	IP67, IP69K	Unsealed: IP50 Sealed: IP67, IP69K
Programmable		✓	✓	✓		✓	✓ (DC models only)	✓	✓	✓	✓	✓	✓	✓
Communication Protocol			IO-Link® Modbus	IO-Link® Modbus		IO-Link®			Modbus	IO-Link® Modbus	IO-Link® Modbus	IO-Link®		IO-Link®
Audible				✓			✓							
Daylight Visible	✓			✓			✓						✓	



Programmable LED indicators offer multiple color choices in a single housing

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S15L Series

In-Line Sensor Status Indicators

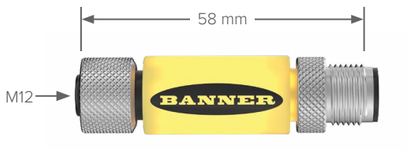
- Connect directly to or in-line with a sensor for 360-degree visibility of status
- Standard models available with two-color indication to mimic output status
- Programmable models available with Modbus control, RGB LEDs, and five animations (steady, flash, two-sided flash, intensity sweep, and two-color shift)
- Highly visible body allows workers to identify and troubleshoot problems faster
- Overmolded design is reliable and rugged to withstand harsh industrial environments

Programmable Model

Housing	Style	Control	Connection	Model
S15	Programmable	Serial Modbus RS-485	4-pin M12 integral male/female quick-disconnect	**S15LPSQ**

Standard Models

Power ON (Color 1)	Input Active (Color 2)	Input Type	Connection	Models
Green	Yellow	PNP	4-pin male/female M12 quick disconnect	**S15LGYPQ**
		NPN		**S15LGYNQ**
	Red	PNP		**S15LGRPQ**
		NPN		**S15LGRNQ**
Red	Green	PNP		**S15LRGPQ**
Yellow				**S15LYGPQ**



Supply Voltage	Programmable: 12 to 30 V DC Standard: 10 to 30 V DC
Vibration and Mechanical Shock	Meets IEC 60068-2-6 requirements Vibration: 10 to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell Meets IEC 60068-2-27 requirements Shock: 15G 11 ms duration, half sine wave
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, IP68, NEMA/UL Type 1
Certifications	CE, cULus LISTED, UKCA

Brackets



LMBM12MAG
Attaches to M12 cordset end



LMBM12SP
Attaches to M12 cordset end



LMBS15MAG
Magnetic Mount



LMBS15SP



S18L Series

18 mm Barrel Indicators

- Gasketed face flange for sealing to enclosures
- Daylight Visible models are also available for areas with high levels of ambient light
- M12 connector models available for plug-and-play indication
- 10 to 30 V DC operating range allows for use in battery-powered mobile applications
- Terminal-wired models available to simplify panel wiring
- Up to three independent colors in one unit
- Translucent face appears gray when off to avoid false indication
- Multiple colors available, including green, red, yellow, blue, white, orange

Standard Models

Series: **S18L**

Color*: 1 **G**, 2 **R**, 3 **Y**
- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **X** = Not used

Input: **P**
- **P** = PNP
- **N** = NPN

Connection: **Q**
- **Blank** = 2 m integral cable
- **Q** = M12 integral QD
- **QP** = M12 pigtail QD
- **T** = 4-screw terminals

QD models require mating cordset

*Single-color models are available and should be ordered as PNP, but can be wired for either PNP or NPN input

Daylight Visible Models

Series: **S18DL**

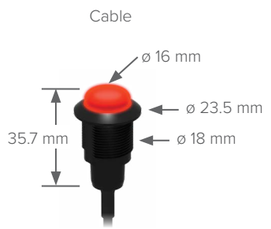
Color*: 1 **G**, 2 **R**, 3 **Y**
- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **O** = Orange

Input: **P**
- **P** = PNP
- **N** = NPN

Connection: **Q**
- **Blank** = 2 m integral cable
- **Q** = M12 integral QD
- **QP** = M12 pigtail QD
- **T** = 4-screw terminals

QD models require mating cordset

Laser Marking Available





Supply Voltage	General Purpose: 10 to 30 V DC High-Intensity: 9 to 30 V DC
Construction	Housing: UV stabilized polycarbonate Mounting Nut: PBT Sealing Washer: Nitrile
Operating Conditions	General Purpose: –40 to +50 °C Other: –40 to +60 °C
Environmental Rating	IP67, IP69K, per DIN 40050
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB18A
Use with S18L



SMB18FA
Use with S18L



SMBAMS18RA
Use with S18L



SMBC18
Use with S18L on 28 mm Pipe

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



S22L Series

22 mm Barrel Indicators

- Gasketed face flange for sealing to enclosures
- Daylight Visible models are also available for areas with high levels of ambient light
- M12 connector models available for plug-and-play indication
- 10 to 30 V DC operating range allows for use in battery-powered mobile applications
- Terminal-wired models available to simplify panel wiring
- Up to three independent colors in one unit
- Translucent face appears gray when off to avoid false indication
- Multiple colors available, including green, red, yellow, blue, white, orange

Standard Models

Series: **S22L**

Color*: 1 **G**, 2 **R**, 3 **Y**
- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **X** = Not used

Input: **P**
- **P** = PNP
- **N** = NPN

Connection: **Q**
- **Blank** = 2 m integral cable
- **Q** = M12 integral QD
- **QP** = M12 pigtail QD
- **T** = 4-screw terminals

QD models require mating cordset

*Single-color models are available and should be ordered as PNP, but can be wired for either PNP or NPN input

Daylight Visible Models

Series: **S22DL**

Color*: 1 **G**, 2 **R**, 3 **Y**
- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **O** = Orange

Input: **P**
- **P** = PNP
- **N** = NPN

Connection: **Q**
- **Blank** = 2 m integral cable
- **Q** = M12 integral QD
- **QP** = M12 pigtail QD
- **T** = 4-screw terminals

QD models require mating cordset

Laser Marking Available

Cable



Quick Disconnect



Supply Voltage	General Purpose: 10 to 30 V DC High-Intensity: 9 to 30 V DC
Construction	Housing: UV stabilized polycarbonate Mounting Nut: PBT Sealing Washer: Nitrile
Operating Conditions	General Purpose: –40 to +50 °C Other: –40 to +60 °C
Environmental Rating	IP67, IP69K, per DIN 40050
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB22A



SMB22FVK



SMBAMS22P



SMBAMS22RA



Programmable Models

22 mm Flush Mount Indicators

- Bright, even indication in up to fourteen colors
- Programmable using Banner Pro Editor Software and Pro Converter Cable
- Seven-color models have flashing input control
- Models constructed from FDA grade materials available for use in food and beverage applications
- Terminal connector options for fast, economical installation in panels
- Flush design matches S22 Touch buttons, see page 82

Series: **S22L2**

Material: **S**
- **S** = Standard
- **F** = FDA grade

Color*: **RGB7**
- **RGB7** = RGB multicolor (7 colors)
- **RGB14** = RGB multicolor (14 colors)

Connection: **Q**
- **Blank** = 2 m integral cable
- **Q** = 5-pin M12 integral QD
- **QP** = 5-pin M12 pigtail QD
- **T** = Terminal screws

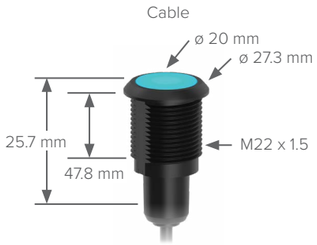
QD models require mating cordset

*7 colors = Green, yellow, red, blue, white, cyan, magenta with flash input

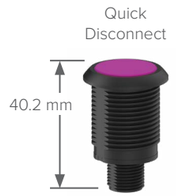
14 colors = Above colors, plus, orange, amber, lime green, spring green, sky blue, violet, and rose

Laser Marking Available

Cable



Quick Disconnect



Terminal



Supply Voltage	10 to 30 V DC
Construction	Housing: Polycarbonate or FDA grade plastic, depending on model Translucent dome: Polycarbonate or FDA grade plastic, depending on model Mounting Nut: PBT or FDA food grade plastic
Operating Conditions	–40 to +50 °C
Environmental Rating	Standard: UL Type 4x, 13 FDA Grade: UL Type 4x Cable, Pigtail, QD models: IP66, IP67, IP69K per DIN 40050-9 Terminal: IP66, IP69K per DIN 40050-9 on front only
Certifications	CE, cULus LISTED, UKCA

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K30 Series

30 mm Multicolor Indicators

- Bright, even indication in three standard colors
- Polycarbonate housing protects against impact and withstands high-pressure, high-temperature washdown to ensure reliable performance in challenging environments
- Simple wiring plan enables quick installation and allows users to consolidate controller outputs



Programmable Models

Same Functionality as Standard with Additional Features Below

- Bright, even indication in seven standard colors, with additional color and animation options available with the exclusive Pro Editor Software
- K30 Programmable devices with PICK-IQ™ and IO-Link give full access to color, flashing, rotating, and dimming settings as well as advanced animations such as dynamic sequence mode and LED control
- PICK-IQ brings faster response speed and simplified programming to Modbus RTU communication

Standard Models

Number of Colors	Colors	Input	Connection	Models
3	Green, red, yellow	PNP	4-pin M12 integral QD	**K30LGRYPQ**
		NPN		**K30LGRYNQ**

QD models require mating cordset



Supply Voltage	10 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, IP69K
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB22A



SMB22FVK



SMB22RAVK



SMBAMS22P



SMBAMS22RA



LMB22LPC

Programmable Models

Series: **K30L2**

Color & Input: **RGB7**
- **RGB7** = Multicolor

Connection: **Q**
- **Blank** = 2 m integral Cable
- **Q** = M12 integral QD
- **QP** = 5-pin M12 QD
- **T** = Terminal screw

QD models require mating cordset

Programmable Models with IO-Link or PICK-IQ

Series: **K30P**

Housing: **L**
- **L** = Dome

Control: **K**
- **K** = IO-Link
- **S** = Serial/PICK-IQ™

Connection: **Q**
- **Q** = 4-pin M12 integral QD
- **QP** = 150 mm PVC cable with 4-pin M12 QD*
- **Q2PS** = Dual 240 mm PVC shielded cables with 5-pin M12 QD**

QD models require mating cordset
*Available with IO-Link models only
**Available with PICK-IQ models only



Supply Voltage	10 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, IP69K
Certifications	CE, cULus LISTED, UKCA

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K50 Series

50 mm Multicolor Indicators

- Bright, uniform indicator light
- Displays up to five colors
- Compact models available for lower profile applications
- Bimodal inputs (PNP/NPN), depending on source wiring
- Models with integrated audible alarm available
- Variety of connector options

Standard Models

Series	Color/Audible 1	Color/Audible 2	Color/Audible 3	Color/Audible 4	Input	Connection
K50L	**G**	**R**		**Y**	**P**	**Q**

K50L = Dome
K50FL = Flat mount*

G = Green
R = Red
Y = Yellow
B = Blue
W = White
O = Orange
X = No color**

A1 = Steady (75 dB, IP50)
A2 = Pulsed (75 dB, IP50)
AL1 = Loud steady (95 dB, IP50)
ALS = Sealed continuous tone (94 dB, IP67)
ALS4 = Sealed staccato tone (94 dB, IP67)***
AS = Steady (65 dB, IP69K)***
Blank = None

P = PNP
N = NPN

Blank = 2 m integral cable
Q = 4-pin M12 integral QD*
QP = 150 mm PVC cable with 4-pin M12 QD
QPMA = 150 mm PUR cable with 4-pin M12 QD

QD models require mating cordset

*Not available with audible
**LED color designated with X also indicates that the associated input wire is not used.
***Not available with NPN

Supply Voltage	18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	Standard Dome: IP66, IP67, IP69K Standard Audible Dome: IP50 Sealed Audible Dome: IP66, IP67, IP69K Compact: IP66, IP67, IP69K
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**





Programmable Models

Same Functionality as Standard with Additional Features Below

- Seven default colors in one device (green, red, yellow, blue, white, cyan, magenta)
- Programmable using Banner's Pro Editor Software and Pro Converter Cable
- Compact models available for lower profile applications
- Models constructed from FDA grade materials available
- PICK-IQ™ brings faster response speed and simplified programming to Modbus RTU communication
- IO-Link models give full access to color, flashing, rotating, and dimming settings as well as advanced animations such as dynamic sequence mode and LED control

Go-To Models

Housing	Color and Input	Connection
K50PSL	**RGB7**	**Q**

RGB7 = RGB (7 colors, 15 states)
K = IO-Link
S = Modbus

Q = M12 integral QD

Programmable Models

Series	Material	Color & Input	Audible Alarm**	Connection
K50L2		**RGB7**	**A1**	**Q**

K50L2 = Dome
K50CL2 = Compact***

Blank = Standard
F = FDA grade

RGB7 = RGB multicolor (7 colors)
RGBK = RGB multicolor with IO-Link

Blank = No audible
A1 = Audible
AL1 = Loud audible
ALS = Sealed audible

Blank = 2 m integral cable
Q = M12 integral QD***
QP = M12 pigtail QD

QD models require mating cordset

**Audible models not available in FDA grade material or compact
***Compact and integral QD models not available in FDA grade material

Programmable Models with PICK-IQ

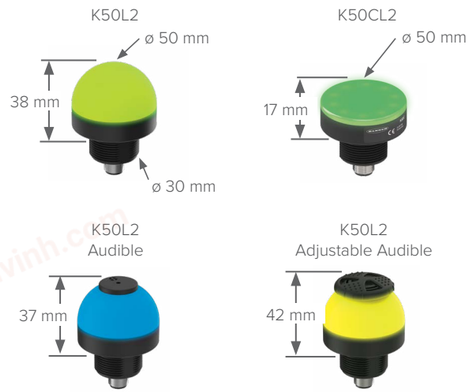
Series	Activation Method	Control	Connection
K50P	**L**	**S**	**Q**

L = Indicator

S = Serial/PICK-IQ™

Q = 4-pin M12 integral QD
Q2PS = Dual 240 mm PVC shielded cables with 5-pin M12 integral QDs

QD models require mating cordset



Supply Voltage	RGB7: 10 to 30 V DC RGBK: 24 V DC ±25%
Construction	Standard: Polycarbonate FDA: Copolyester
Operating Conditions	–40 to +50 °C
Environmental Rating	Dome: Standard: IP66, IP67, IP69K Standard Audible: IP50 Sealed Audible: IP66, IP67, IP69K Compact: IP66, IP67, IP69K
Certifications	CE, cULus LISTED, UKCA

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K50 Beacon

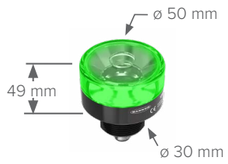
50 mm Multicolor Indicators

- Bright indicator with individually visible LEDs
- Intense levels of light output for areas with high ambient light, including outdoor environments
- Viewable around entire perimeter
- Five default colors in one device
- Bimodal inputs (PNP/NPN), depending on source wiring
- Variety of connector options

Standard Models

LED Color(s)	Viewable Area	Input Type	Supply Voltage	Connection	Models
Green	Perimeter view only	PNP	12 to 30 V DC	4-pin M12 integral quick disconnect	**K50BLXGXPQ**
	Perimeter and top view				**K50BCLXGXPQ**
Red	Perimeter view only				**K50BLXRXPQ**
	Perimeter and top view				**K50BCLXRXPQ**
Yellow	Perimeter view only				**K50BLXYXPQ**
	Perimeter and top view				**K50BCLXYXPQ**
Blue	Perimeter view only				**K50BLXBXPQ**
	Perimeter and top view				**K50BCLXBXPQ**
White	Perimeter view only				**K50BLXWXPQ**
	Perimeter and top view				**K50BCLXWXPQ**
Green, red, yellow	Perimeter view only			5-pin M12 integral quick disconnect	**K50BLGRYPQ**
	Perimeter and top view				**K50BCLGRYPQ**

*AC, rotating, and strobing models available. Visit bannerengineering.com for other available models.



Supply Voltage	12 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9*

*Models also meet UL Type 4X and UL Type 13 when mounted in suitable enclosure. Cabled models also meet IP69K per DIN 40050-9 if the cable and cable entrance are protected from high-pressure spray.

Brackets



SMB30A | **SMB30FVK** | **SMB30RAVK** | **SMBAMS30P** | **SMBAMS30RA** | **SMB30MM** | **SMB30SC** | **SMB30FA**



Programmable Models

Same Functionality as Standard with Additional Features Below

- Seven default colors in one device (green, red, yellow, blue, white, cyan, magenta)
- Programmable using Banner's Pro Editor Software and Pro Converter Cable
- IO-Link control allows access to full color, flashing, and dimming controls as well as advanced animations for millions of color possibilities
- PICK-IQ™ models provide faster response speed and simplified programming to Modbus RTU communication



Programmable Models

Series: **K50P**
Housing: **BL** — **BL** = Beacon
Color & Input: **RGB7** — **RGB7** = RGB multicolor (7 colors)
Connection: **Q** — **Blank** = 2 m integral cable; **Q** = M12 integral QD; **QP** = M12 pigtail QD

QD models require mating cordset

Programmable Models with IO-Link or PICK-IQ

Series: **K50P**
Housing: **BL** — **BL** = Beacon
Control: **S** — **S** = Serial/PICK-IQ™; **K** = IO-Link
Connection: **Q2PS** — **Q** = M12 integral QD; **Q2PS** = Dual 240 mm PVC shielded cables with 5-pin integral M12 QD; **QP** = M12 pigtail QD

QD models require mating cordset



Supply Voltage	10 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9*

*Models also meet UL Type 4X and UL Type 13 when mounted in suitable enclosure. Cabled models also meet IP69K per DIN 40050-9 if the cable and cable entrance are protected from high-pressure spray.

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K70 Series

70 mm General Purpose Indicators

- Bright, uniform indicator light
- All models have flashing input control
- Models are available with up to five colors in one device

Number of Colors	Colors	Input	Connection	Models
1	Green	PNP	5-pin M12 integral QD	**K70LGPQ**
	Red			**K70LRPQ**
	Yellow			**K70LYPQ**
	Blue			**K70LBPQ**
	White			**K70LWPQ**
	Green	NPN		**K70LGNQ**
	Red			**K70LRNQ**
	Yellow			**K70LYNQ**
	Blue			**K70LBNQ**
	White			**K70LWNQ**
2	Green, red	PNP		**K70LGRPQ**
		NPN		**K70LGRNQ**
3	Green, red, yellow	PNP		**K70LGYRPQ**
		NPN		**K70LGYRNQ**
4	Blue, green, yellow, red	PNP	8-pin M12 integral QD	**K70LBGYRPQ**
		NPN		**K70LBGYRNQ**
5	White, blue, green, yellow, red	PNP		**K70LWBGYRPQ**
		NPN		**K70LWBGYRNQ**



Supply Voltage	12 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**







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K90 Series

90 mm Multicolor Indicators

- Large, bright, uniform indicator light
- Models are available with up to five colors in one device
- Bimodal inputs (PNP/NPN), depending on source wiring
- Translucent polycarbonate dome
- Variety of connector options

Standard Models

Number of Colors	Colors	Input	Connection	Models
2	Green, red	PNP	5-pin M12 integral QD	**K90LGRPQ**
		NPN		**K90LGRNQ**
3	Green, red, yellow	PNP		**K90LGYRPQ**
		NPN		**K90LGYRNQ**
5	White, blue, green, yellow, red	PNP	8-pin M12 integral QD	**K90LWBGYRPQ**
		NPN		**K90LWBGYRNQ**



Supply Voltage	12 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, UL Type 4X, UL Type 13
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**



Programmable Models

Same Functionality as Standard with Additional Features Below

- Seven default colors in one device (green, red, yellow, blue, white, cyan, magenta)
- Programmable using Banner's Pro Editor Software and Pro Converter Cable
- IO-Link models provide access to full color, flashing, and dimming controls as well as advanced animations for millions of color possibilities

Programmable Models

Series	Housing	Control	Connection
K90P	**L**	**RGB7**	**Q**

L = Dome

RGB7 = RGB multicolor

Blank = 2 m integral cable
Q = 5-pin M12 integral QD
QP = 150 mm M12 integral QD

QD models require mating cordset

Programmable Models with IO-Link

Series	Housing	Control	Connection
K90P	**L**	**K**	**Q**

L = Dome

K = IO-Link

Blank = 2 m integral cable
Q = 5-pin M12 integral QD
QP = 150 mm M12 integral QD

QD models require mating cordset



Supply Voltage	Programmable: 10 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, UL Type 4X, UL Type 13
Certifications	CE, cULus LISTED, UKCA

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K100 Series

100 mm Standard Beacons

- Daylight Visible beacon provides critical signaling in indoor and outdoor environments
- Single color device with five colors to choose from
- Clear lens avoids false indications
- Easy installation with brackets or on conduit and M12 quick disconnect
- Four unique animations enable intuitive indication
- Sealed audible model with continuous audible tone at 101 dB

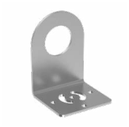
Series		Type	Voltage	Color	Audible Alarm	Connection
K100B	–	**BL**		**G**	**A**	**Q**
		BL = Beacon	**Blank** = DC **Z** = AC	**G** = Green **Y** = Yellow **R** = Red **B** = Blue **W** = White	**Blank** = None **A** = Audible	**Q** = 5-pin M12 integral QD (DC models) or 5-pin 1/2 in. 20 UNF male M12 integral QD (AC models)

QD models require mating cordset



Supply Voltage	12 to 48 V DC 100 to 240 V AC, 50 Hz to 60 Hz
Audible Characteristics	101 dB, 2.5 KHz, at 1 m
Operating Conditions	–40 to +60 °C
Construction	Polycarbonate
Environmental Rating	IP66, UL Type 4X
DC Certifications	

Brackets



LMB36RA



Programmable Models

Multicolor Indicators

- Industrial beacon delivers bright, configurable indication for OEMs and users that need visible status information
- Daylight Visible models provide bright light, even in direct sunlight
- Rugged construction provides years of uninterrupted operation
- Programmable using Banner's Pro Editor Software and Pro Converter Cable (DC models)
- Rugged UV-stabilized polycarbonate base and window
- Models available for indoor and outdoor applications

Programmable Daylight Visible Single Color Models

Series	Type	Color	Audible Alarm	Connection
K100P	**BL**	**Y**	**A**	**Q**
	BL = Beacon	**Y** = Yellow **R** = Red	**Blank** = None **A** = Audible	**Blank** = 2 m integral cable **Q** = 5-pin M12 integral QD **QP** = 150 mm M12 integral QD

QD models require mating cordset

Programmable Daylight Visible Three Color Models

Series	Type	Voltage	Color 1	Color 2	Color 3	Audible Alarm	Connection
K100P	**BL**		**G**	**Y**	**R**	**A**	**Q**
	BL = Beacon	**Blank** = DC **Z** = AC	**G** = Green	**Y** = Yellow	**R** = Red	**Blank** = None **A** = Audible	**Blank** = 2 m integral cable **Q** = 5-pin M12 integral QD (DC models) or 5-pin 1/2 in. 20UNF male M12 integral QD (AC models) **QP** = 150 mm M12 integral QD

QD models require mating cordset

Programmable Multicolor Models

Series	Type	Voltage	Colors	Audible Alarm	Connection
K100P	**L**		**RGB7**	**A**	**Q**
	L = Indicator	**Blank** = DC **Z** = AC	**RGB7** = RGB multicolor	**Blank** = None **A** = Audible	**Blank** = 2 m integral cable **Q** = 5-pin M12 integral QD (DC models) or 5-pin 1/2 in. 20UNF male M12 integral QD (AC models) **QP** = 150 mm M12 integral QD

QD models require mating cordset

Programmable Daylight Visible Beacon



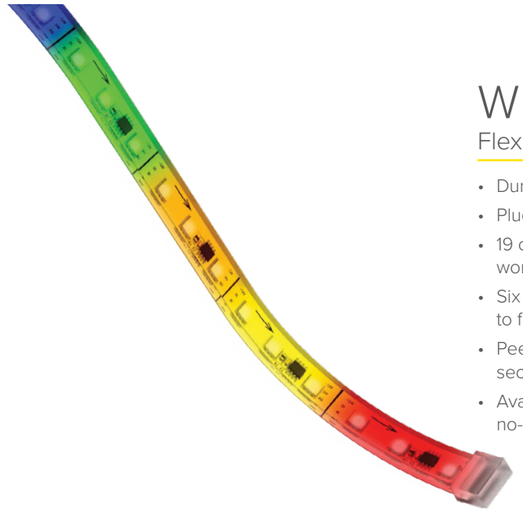
Programmable Indicator Beacon



Supply Voltage	12 to 48 V DC 100 to 240 V AC
Construction	Polycarbonate
Operating Conditions	–40 to +60 °C
Environmental Rating	IP69K, UL Type 4X
Certifications	

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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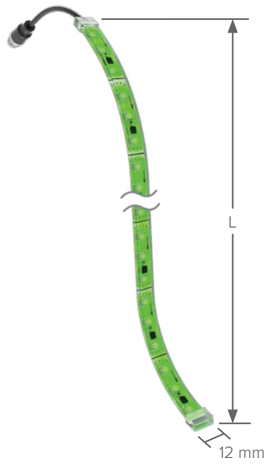
WLF12 Series

Flexible Multicolor Strip Lights

- Durable, silicone-encapsulated housing provides long-lasting, worry-free performance
- Plug-and-play standard M12 connections simplify installation by eliminating soldering
- 19 colors and 15 animation effects visually communicate machine states to people working on or near equipment
- Six standard lengths (from 300 to 3000 mm) can be cut in 50 mm increments to fit to exact application specifications
- Peel-and-stick installation using high-strength adhesive backing ensures quick and secure mounting
- Available LC25 LED Controller enables simple discrete I/O or IO-Link operation and no-code configuration

Series	Cascadable	Color*	Lighted Length (mm)	Construction	Connection
WLF12P	**X**	**RGB**	**300**	**S**	**QP**
	X = Non-cascadable	**RGB** = RGB multicolor	**300** **600** **900** **1200** **2000** **3000**	**S** = Sealed	**QP** = 150 mm PVC-jacketed cable with 4-pin M12 male QD

*LC25 Pro LED Controller required for discrete I/O and IO-Link operation



Length (L)
300 mm
600 mm
900 mm
1200 mm
2000 mm
3000 mm

Supply Voltage	Strip light: 12 V DC with Discrete LC25: 12 to 30 V DC with IO-Link LC25: 18 to 30 V DC
Bend Radius	15 mm
Construction	Silicone material, suitable for damp location use. Fully overmolded and encapsulated LEDs.
Operating Conditions	–20 to +45 °C
Environmental Rating	IP66, IP67, IP69K
Certifications	CE, cULus LISTED, UKCA

Brackets



LMBWLF12C
Set of 10 clamp brackets, translucent silicone

Controllers

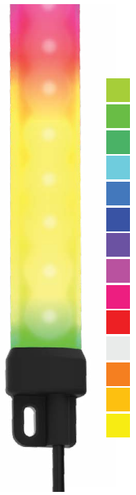


LC25C-WLF12-RGB7Q
Programmable LED Controller*



LC25C-WLF12-KQ
Programmable LED Controller with IO-Link*

*LC25 Programmable LED Controller required for discrete I/O and IO-Link operation



WLS15 Series

LED Strip Lights with Pro Editor, IO-Link, or PICK-IQ™

- Configurable, dynamic indication in a slim, sealed LED strip light
- Nineteen color options plus animations and direct sensor interface give limitless options to convey status, resulting in clear communication and improved productivity
- Available in six lengths: 220, 360, 500, 640, 920, 1200 mm
- Provides operator guidance for assembly and manufacturing processes
- Pro Editor compatibility allows for field configuration of modes, colors, animations, and more on discrete (controlled) models
- IO-Link and serial (RS-485) PICK-IQ models are available with even more capabilities such as individual LED control and the ability to divide the light into ten total segments

Series	Cascadable	Color	Length (mm)	Window	Construction	Control	Connector
WLS15P	**X**	**RGB**	**0360**	**D**	**S**		**QP**
	X = Non-cascadable	**RGB** = RGB multicolor	**0220** **0360** **0500** **0640** **0920** **1200**	**D** = Diffuse	**S** = Sealed (IP66, IP67)	**Blank** = Programmable **S** = PICK-IQ™ **K** = IO-Link	**QP** = 150 mm M12 integral QD



Length (L)
220 mm
360 mm
500 mm
640 mm
920 mm
1200 mm

Supply Voltage	Programmable: 12 to 30 V DC PICK-IQ: 12 to 30 V DC IO-Link: 18 or 30 V DC
Construction	Clear anodized aluminum inner housing; Polycarbonate outer housing, Polyamide end caps
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67 Suitable for wet locations per UL 2108
Certifications	CE, cULus LISTED, UKCA, UL MX NOM, cULus E476617

Brackets



LMBWLS15-150S



LMBWLS15



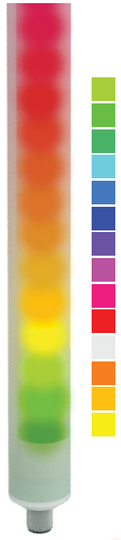
LMBWLS15MAG
Magnetic Mount



LMBWLS15TF
Tape

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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WLS27 Series

Programmable LED Strip Lights

- Programmable models with RGBW LEDs for use in indication, illumination, and inspection applications
- Banner's Pro Editor Software allows users to program device status, colors, and animations for control via three discrete inputs
- IO-Link helps reduce costs, increase process efficiency, and improves machine availability
- Offers illumination and multiple indication capabilities in a single device with EZ-STATUS
- Use its bright light for illumination or colors for broad status information
- Bright white light for efficiency, quality, and safety during normal operation
- Heavy diffuse window for smooth glow and close-range indication

Series	Cascadable	Color	Lighted Length (mm)	Window	Construction	Control	Connector
WLS27P	**X**	**RGBW**	**285**	**D**	**S**	**K**	**Q**
	X = Non-cascadable	**RGBW** = RGBW multicolor	**145** **285** **430** **570** **850** **1130**	**D** = Diffuse plastic **H** = Heavy diffuse plastic	**S** = Sealed	**Blank** = Programmable **K** = IO-Link	**Q** = M12 integral QD QD models require mating cordset



Lighted Length (L)

145 mm	570 mm
285 mm	850 mm
430 mm	1130 mm

Supply Voltage	18 to 30 V DC
Construction	Copolyester
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, IP69K per DIN 40050-9
Certifications	

*Depending on length and color

Brackets



LMBWLS27EC
Clear Copolyester



LMBWLS27H



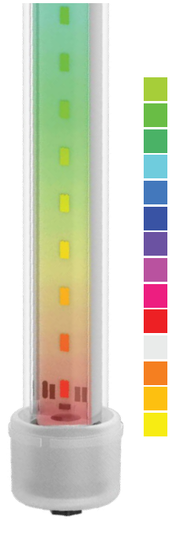
LMBWLS27T



LMBWLS27U
Clear Copolyester
(Also available with magnet LMBWLS27U-MAG)



LMBWLS27SP
Clear Copolyester

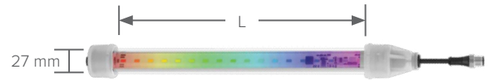


RLS27 Series

Programmable Rugged LED Strip Lights

- Shatterproof, UV-stabilized polycarbonate shell offers superior chemical resistance and protection to withstand harsh environments such as car washes
- Sturdy aluminum housing and robust endcaps provide dependable use outside in any weather
- High-intensity focused lens delivers long-range illumination for easy viewing outdoors
- IP67- and IP69K-rated for reliable operation in demanding applications with high temperatures and high pressure washdowns
- Colors, animations, and device status on Programmable models can be customized using Banner's Pro Editor software to meet any user needs

Series	Cascadable	Color	Lighted Length (mm)	Window	Construction	Connection
RLS27P	**X**	**RGBW**	**1130**	**L35**	**S**	**QP**
	X = Non-cascadable	**RGBW** = RGBW Multicolor	**285** **570** **850** **1130**	**Blank** = Clear **L35** = 35° lensed window	**S** = Sealed	**QP** = 150 mm PVC-jacketed cable with 4-pin M12 male QD



Lighted Length (L)

285 mm	1130 mm
570 mm	1700 mm
850 mm	2270 mm

Supply Voltage	18 to 30 V DC
Construction	Inner housing: Clear anodized aluminum Outer housing: UV-stabilized polycarbonate Connector: Nickel-plated
Operating Conditions	–40 to +70 °C (–40 to +158 °F)
Environmental Rating	IP67, IP69K per DIN 40050-9
Certifications	

Brackets



LMBHLS27S
Impact absorbing brackets, set of two (included)



LMBHLS27O
Impact absorbing clamp brackets, set of two (optional)



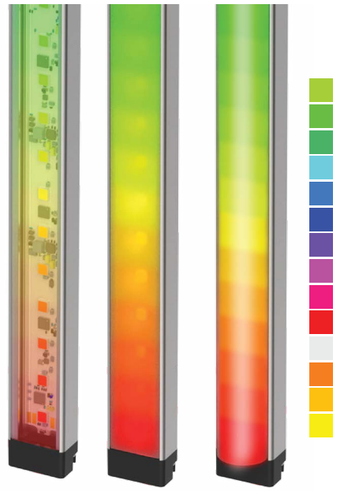
LMBWLS27H
Hanging clamp brackets, set of two (optional)



LMBWLS27U
Universal clamp bracket (optional)

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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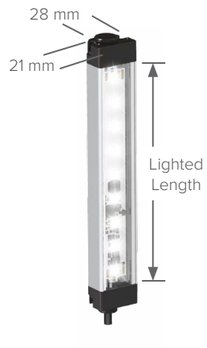


WLS28 Series

Programmable LED Strip Lights

- High quality illumination and indication from RGBW LEDs
- Six white color temperatures for comfort and compatibility
- Thirteen color options for varied indication and inspection uses
- IO-Link gives full access to individual LED control, color, flashing, intensity, and animation settings, as well as advanced operating modes for displaying distance, count, time, and position
- Lensed models or choice of clear or diffuse window
- Banner's Pro Editor Software allows users to program device status, colors, and animations for control via three discrete outputs
- Offers illumination and multiple indication capabilities in a single device with EZ-STATUS

Series	Cascadable	LED Color	Lighted Length (mm)	Window	Construction	Control	Connector
WLS28P	**X**	**RGBW**	**285**		**X**	**K**	**Q**
	X = Non-cascadable		**145**	**Blank** = Clear plastic	**X** = IP50	**Blank** = Standard	**Q** = M12 integral QD
		RGBW = RGBW multicolor	**285**	**D** = Diffuse plastic		**K** = IO-Link	QD models require mating cordset
			430	**L25** = 25° lensed window			
			570	**L25D** = 25° diffuse lensed window			
			850				
			1130				



Lighted Length (L)
145 mm
285 mm
430 mm
570 mm
850 mm
1130 mm

Supply Voltage	18 to 30 V DC
Construction	Housing: Clear anodized aluminum End Caps: Painted zinc Clear/Diffuse Window: Polycarbonate L25 Window: Acrylic
Operating Conditions	–40 to +50 °C
Environmental Rating	IP66, IP67, and IP69K per DIN 40050-9
Certifications	

*Depending on length and color

Brackets



SMBWLS28RA
Top Mount
(included)



SMBWLS28SM
Side Mount



SMBWLSMAG
Magnetic Mount
Protective cover for magnet sold separately (SMBWLSMAGR).



SMBWLS28SP
Snap Mount



GS60 Series

Programmable Guide Spotlights

- Reduce errors, improve productivity, and enhance operator interaction with increased visibility provided by the bright, focused spot
- Enhance worker comfort and safety by easily setting lighting levels to match the environment and application needs
- Reliably use in harsh environments with the long-lasting, impact resistant, durable anodized aluminum housing and polycarbonate window
- Communicate operational information with seven-color Programmable models

Series	Color	Lens Angle	Control	Connector
GS60P	**RGBW**	**L9**		**Q**
	RGBW = RGBW multicolor (Red, yellow, green, blue, cyan, magenta, white)	**9** = ±9 degree lens	**Blank** = Constant power plus three inputs	**Q** = 5-Pin M12 integral QD QD models require mating cordset



Supply Voltage	12 to 30 V DC
Construction	Housing: Black anodized aluminum Window: Polycarbonate Connector: Nickel-plated M12 QD Mounting nut: Black anodized aluminum
Operating Conditions	–40 to +50 °C (–40 to +122 °F)
Environmental Rating	IP66, IP67
Certifications	

Brackets



SMB30A



SMBAMS30P



SMBAMS30RA



SMB30MM



ACC-GS60
M48 x 2 front mounting knurl nut

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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Touch Button and Pick-to-Light

Selection Guide











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Series Name	S22 Touch	K30 Touch	K50 Touch	K70 Touch	K30 Touchless	K50 Touchless	K50 Touch Display	PTL110
Indicator Diameter (mm)	22	30	50	70	30	50	50	15
Mounting Hole Diameter (mm)	22	22	30	30	22	30	30	—
AC/DC	DC	DC	DC	DC	DC	DC	DC	DC
IP Rating	IP66, IP67, IP69K	IP67, IP69K	IP65, IP66, IP67, IP69K	IP65	IP65	IP66, IP67, IP69K	IP67, IP69K	IP66, IP67
Programmable	✓	✓	✓	✓	✓	✓	✓	✓
Communication Protocol		IO-Link® PICK-IQ® Modbus	IO-Link® PICK-IQ® Modbus			IO-Link® PICK-IQ® Modbus	IO-Link® PICK-IQ® Modbus	PICK-IQ®
Sensor Range	—	—	—	—	20 to 1000 mm	20 to 1000 mm	—	100, 200 mm
Audible			✓	✓				



Programmable LED indicators offer multiple color choices in a single housing

chanhvinh.com



S22 Programmable Touch

Flush Mount Touch Button Indicators

- Programmable using Banner Pro Editor Software and Pro Converter Cable
- Resistance to false triggering by water spray, detergents, oils, and other foreign materials
- Rugged, cost effective, and easy to install
- Up to seven independent colors in one unit
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch operation; requires no physical force to operate
- Can be actuated with bare hands or gloves

Multicolor Models

Series	Output State	Output Function	Activation Method	Material	Color*	Connection
S22	**A**	**M**	**T**	**S**	**RGB7**	**QP**
	A = Normally open **R** = Normally closed	**M** = Momentary **L** = Latching	**T** = Touch	**S** = Standard **F** = FDA grade	**RGB7** = RGB multicolor (7 colors) **GRY3** = Programmable multicolor (3 color, 5-pin)	**Blank** = 2 m integral cable **Q** = M12 integral QD** **QP** = 5-pin M12 pigtail QD **T** = 5-screw terminal**

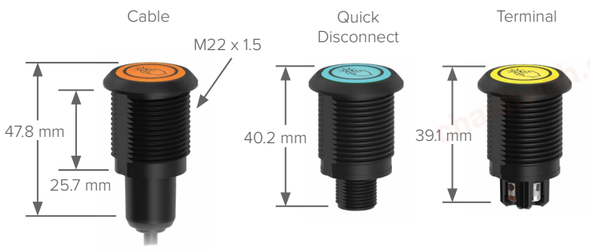
*7 colors = Green, yellow, red, blue, white, cyan, magenta or 3 colors = green, yellow, red
**Not available with RGB7 models

QD models require mating cordset

One- or Two-Color/Function Models

Series	Output State	Output Function	Activation Method	Material	Color 1/ Job	Color 2/ Sense	Function	Connection
S22	**A**	**M**	**T**	**S**	**G**	**R**	**H**	**Q**
	A = Normally open **R** = Normally closed	**M** = Momentary **L** = Latching	**T** = Touch	**S** = Standard **F** = FDA grade	**G** = Green **Y** = Yellow **R** = Red **B** = Blue **W** = White **X** = Not used	**C** = Pick-to-light† **E** = Pick-to-light† **D** = Pick-to-light†	**H** = Illuminated buttons	**Blank** = 2 m integral cable **Q** = M12 integral QD **QP** = 5-pin M12 pigtail QD **T** = 5-screw terminal

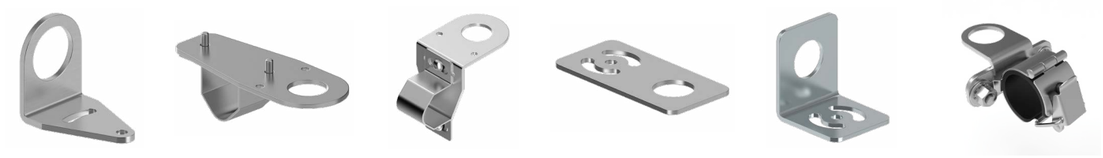
QD models require mating cordset
†Latching output function not available



Supply Voltage	10 to 30 V DC
Construction	Standard: Polycarbonate FDA: FDA grade Copolyester
Operating Conditions	–40 to +50 °C
Environmental Rating	Standard: IP66, IP67, IP69K per DIN 40050-9†† Terminal: Screw connection points meet IP00 FDA: IP66, IP67, IP69K per DIN 40050-9
Certifications	CE cULus LISTED UKCA

††Indicator side of terminal models also meet IP69K per DIN 40050-9 when mounted in suitable enclosure. Cabled Models also meet IP69K per DIN 40050-9 if the cable and cable entrance are protected from high-pressure spray.

Brackets



SMB22A **SMB22FVK** **SMB22RAVK** **SMBAMS22P** **SMBAMS22RA** **LMB22LPC**



K30 Programmable Touchless

30 mm Indicators with Optical Sensor

- Sensing and Indication in one device
- Pro Editor Software gives users the flexibility to define indication colors, range, and logic
- Remote input enables range definition without a controller for fast, simple setup
- Touchless activation eliminates the need for physical force to operate or contaminate
- Adjustable range from 20 to 1000 mm for detection where needed, and ignores objects in the background
- Uses configurable indication states to show target position/distance

Series	Activation Method	Output State	Output Function	Color/Control	Connector
K30P	**AF100**	**A**	**M**	**GRY3**	**Q**
	AF100= 20–100 mm adjustable field* **AF1000**= 20–1000 mm adjustable field*	**A** = Normally Open	**M** = Momentary	**GRY3** = Programmable multicolor (3 Color, 5-Pin) **GRY4** = Four state, full logic multicolor (3 Color, 5-Pin) **RGB7** = Programmable multicolor (7 Color, 8-Pin)	**Q** = 5-pin or 8-pin integral M12 QD depending on model

Requires mating cordset

*Detection distance can be adjusted through teach mode or Pro Editor. Max distance = 1000 mm.



Supply Voltage	10 to 30 V DC
Range	20 mm to 1000 mm
Construction	Polycarbonate
Operating Conditions	–20 °C to +50 °C
Environmental Rating	IP65
Certifications	CE cULus LISTED UKCA

Brackets



SMB22A **SMB22FVK** **SMB22RAVK** **SMBAMS22P** **SMBAMS22RA** **LMB22LPC**

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K30 Touch Series

30 mm Multicolor Touch Button Indicators

- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- One- and two-color models available to solve a variety of applications
- Devices are completely self-contained—no controller needed
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch operation; no physical force required to operate
- Can be actuated with bare hands or gloves



Programmable Models

Same Functionality as Standard with Additional Features Below

- Programmable using Banner's Pro Editor Software and Pro Converter Cable
- Up to seven colors in one device
- Adjustable sensitivity using Pro Editor Software
- PICK-IQ™ brings faster response speed and simplified programming to Modbus RTU communication
- IO-Link models give full access to color, flashing, rotating, and dimming settings as well as advanced animations such as dynamic sequence mode and LED control

Standard Touch Models

Series	Output State	Input	Activation Method	Color 1	Color 2	Function	Connection
K30	**A**	**P**	**T2**	**G**	**R**	**C**	**Q**
	A = Normally open **R** = Normally closed	**P** = PNP **N** = NPN	**T2** = Touch	**G** = Green **Y** = Yellow **R** = Red **B** = Blue **W** = White **X** = Not used		**C** = Input activates color 1. Touch activates color 2 and output. **D** = Input activates color 1. Touch activates output. **E** = Input activates color 1. Touch activates output. Touch with inactive input activates color 2. **F2** = Input activates color 2. Touch changes output state.	**Blank** = 2 m integral cable **Q** = M12 integral QD **QP** = 150 mm cable with 4-pin M12 QD **T** = Terminal screws QD models require mating cordset

Programmable Touch Models

Series	Activation Method	Output State	Output Function	Color/Control	Connection
K30P	**T**	**A**	**M**	**GRY3**	**QP**
	T = Touch	**A** = Normally open	**M** = Momentary **L** = Latching	**GRY3** = Programmable multicolor (3 Color, 5-pin) **RGB7** = Programmable multicolor (7 colors, 8-pin)	**Blank** = 2 m integral cable **Q** = M12 integral QD **QP** = 5-pin M12 pigtail QD

QD models require mating cordset

Programmable Touch Models with IO-Link or PICK-IQ

Series	Activation Method	Control	Connection
K30P	**T**	**K**	**QP**
	T = Touch	**K** = IO-Link **S** = Serial/PICK-IQ™	**Q** = 4-pin M12 integral QD **QP** = 150 mm PVC cable with 4-pin M12 QD* **Q2PS** = Dual 240 mm PVC shielded cables with 5-pin M12 integral QDs** QD models require mating cordset *Available with IO-Link models only **Available with PICK-IQ models only



Supply Voltage	10 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9
Certifications	CE cULus LISTED UKCA



Supply Voltage	Programmable: 12 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9
Certifications	CE cULus LISTED UKCA

Brackets



SMB22A



SMBAMS22P



SMBAMS22RA

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



K50 Touch Series

50 mm Multicolor Touch Button Indicators

- Bright LED indicators combined with touch-activated switching capabilities
- Advanced touch technology allows for high immunity to water while still working with gloves
- Up to three color variations in one device (green, red, and yellow)
- Mechanical button models available for classic, tactile feedback

Standard Touch Models

Colors	Function	Output	Connection	Models
Green	Input activates color 1. Touch activates output.	PNP, N.O.	4-pin M12 integral QD	**K50APT2GXDQ**
Green, red	Input activates color 1. Touch activates color 2 and output.			**K50APT2GRCQ**
	Input activates color 1. Touch activates output. Touch with inactive input activates color 2.			**K50APT2GREQ**
	Power activates color 1. Touch changes bipolar output state and activates color 2. Latch and momentary options.	PNP & NPN	5-pin M12 integral QD	**K50ALBT2GRHQ**
Green, red, yellow	Three inputs activate three colors. Color 3 overrides colors 1 and 2, and color 2 overrides color 1. Touch changes output state.	PNP, N.O.	8-pin M12 integral QD	**K50APT2GRYF2Q**



Supply Voltage	12 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9*
Certifications	CE, cULus LISTED, UKCA

*Cabled models also meet DIN IP69K if the cable and cable entrance are protected from high-pressure spray

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**



Programmable with Audible Models

50 mm Multicolor Touch Button Indicators

- Integral audible alarm has fourteen tones with customization and intensity control
- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Integral audible can be used as standalone indicator or as an input to touch conditions
- Can be actuated with bare hands or gloves
- Compact models available for lower profile applications
- Configurable input/output with Pro Editor Software
- IO-Link models give full access to color, flashing, rotating, and dimming settings as well as advanced animations such as dynamic sequence mode and LED control

Programmable Touch with Audible Models

Series	Activation Method	Housing	Output State	Output Function	Color/ Control	Audible	Connection
K50P	**T**	**C**	**A**	**M**	**GRY3**	**A**	**QP**

T = Touch

Blank = Dome
C = Compact

A = Normally open

M = Momentary
L = Latching

GRY3 = Programmable multicolor (3 Color, 5-pin)
RGB7 = Programmable multicolor (7 colors, 8-pin)

A = Audible

Blank = 2 m integral cable
Q = 5-pin (GRY3 models) M12 integral QD or 8-pin (RGB7 models) M12 integral QD
QP = 150 mm PVC cable with 5-pin (GRY3 models) or 8-pin (RGB7 models) M12 QD

QD models require mating cordset

Programmable Touch with Audible and IO-Link Models

Series	Activation Method	Housing	Control	Audible	Connection
K50P	**T**	**C**	**K**	**A**	**QP**

T = Touch

Blank = Dome
C = Compact

K = IO-Link

A = Audible

Q = 4-pin M12 integral QD
QP = 150 mm PVC cable with 4-pin M12 QD

QD models require mating cordset

Programmable Touch with Audible



Compact Programmable Touch with Audible



Supply Voltage	Programmable: 12 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +70 °C
Environmental Rating	IP67, IP69K per DIN 40050-9*
Certifications	CE, cULus LISTED, UKCA

*Cabled models also meet DIN IP69K if the cable and cable entrance are protected from high-pressure spray

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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Programmable Models

Same Functionality as Standard with Additional Features Below

- Programmable using Pro Editor software and converter cable
- Combine proven touch technology and ruggedness with the added versatility of RGB LEDs
- Programmable using Banner's IO-Link system for customization of colors and animation
- Models made with FDA-approved materials are available for use in the food and beverage industries
- Up to fourteen color variations in one device
- PICK-IQ™ brings faster response speed and simplified programming to Modbus RTU communication

Go-To Models

Housing	Color and Input	Connection
K50PST	**GRY3**	**Q**

GRY3 = RGB (3 colors, 3 states)
K = IO-Link
S = Modbus/PICK-IQ
RGB14 = RGB (14 colors, 15 states)

Q = M12 integral QD



Supply Voltage	Programmable: 12 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Standard: Polycarbonate FDA: FDA grade copolyester
Operating Conditions	–40 to +50 °C
Environmental Rating	Standard: IP67, IP69K per DIN 40050-9* FDA: IP67, DIN IP69K Push Button: IP65
Certifications	CE, cULus LISTED, UKCA

*Cabled models also meet DIN IP69K if the cable and cable entrance are protected from high-pressure spray

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**

Programmable Touch Models

Series	Activation Method	Housing	Output State	Output Function	Color/ Control	Connection
K50P	**T**	**C**	**A**	**M**	**GRY3**	**Q**

T = Touch
TF = Touch, FDA grade
TV = Touch, vibration feedback
TFV = Touch, FDA grade, vibration feedback

C = Compact*
Blank = Std dome

A = Normally open

M = Momentary
L = Latching

GRY3 = Programmable multicolor (3 Colors, 5-pin)
RGB14 = Programmable multicolor (14 colors, 8-pin)

Blank = 2 m integral cable
Q = 5-pin** (GRY3 models) M12 integral QD or 8-pin** (RGB14 models) M12 integral QD
QP = 5-pin** (GRY3 models) M12 pigtail QD or 8-pin** (RGB14 models) M12 pigtail QD

QD models require mating cordset

*Not available in FDA grade material or with vibration feedback
**Not available in FDA grade material

Programmable Touch Models with IO-Link or PICK-IQ

Series	Activation Method	Housing	Control	Connection
K50P	**T**	**C**	**K**	**Q**

T = Touch
TF = Touch, FDA grade***
TV = Touch, vibration feedback***
TFV = Touch, FDA grade, vibration feedback***

Blank = Dome
C = Compact*

K = IO-Link
S = Serial/PICK-IQ™

Q = 4-pin M12 integral QD**
QP = 4-pin M12 pigtail QD**
Q2PS = Dual 240 mm PVC shielded cables with 5-pin M12 integral QD

QD models require mating cordset

*Not available in FDA grade material or with vibration feedback
**Not available in FDA grade material
***Not available in PICK-IQ models

Programmable Push Button Models with IO-Link

Series	Activation Method	Control	Connection
K50P	**PB**	**K**	**Q**

PB = Push button

K = IO-Link

Q = 4-pin M12 integral QD

QD models require mating cordset

Note: Not all models are shown. Visit bannerengineering.com for other available models.

chanhvinh.com



K50 Touchless Series

50 mm Indicators with Optical Sensor

- Rugged, cost-effective, and easy-to-install solutions for error-proofing and parts-verification applications
- Illuminated dome provides easy-to-see job light status
- Choose either polarized retro-reflective or fixed field models

Standard Touchless Models

Colors	Function	Sensing Mode/LED	Range	Output	Connection	Models
Green	Input activates color 1. Presence of hand activates output.	Fixed field, infrared, 880 nm	50 mm cutoff	PNP, N.O.	4-pin M12 integral QD	K50APFF50GXDQ
Green, red	Input activates color 1. Presence of hand activates output and overrides job light.		100 mm cutoff			K50APFF100GRCQ
	Input activates color 1. Presence of hand activates output. Presence of hand while input is inactive causes unit to light red.					K50APFF100GREQ



Supply Voltage	12 to 30 V DC
Construction	Standard: Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	Standard: IP67, IP69K per DIN 40050-9*
Certifications	CE, cULus LISTED, UKCA

*Cabled models also meet DIN IP69K if the cable and cable entrance are protected from high-pressure spray

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**



Programmable Models

Same Functionality as Standard with Additional Features Below

- Up to fourteen standard colors in one device
- IO-Link models enable even more color and animation customization managed dynamically by the master, plus individual LED control
- Discrete model featuring Pro Editor compatibility improves speed in deployment and machine interface. Get control of colors, logic, and outputs in a discrete controlled K50 with integrated optical sensor.
- Sequence mode can be used to indicate level, takt time, and more
- PICK-IQ™ gives full access to color, flashing, rotating, and dimming settings as well as advanced animations such as dynamic sequence mode and LED control

Go-To Models

Housing	Style	Color and Input	Connection
K50	**PSAF1000**	**GRY3**	**Q**
	PSAF1000 = Adjustable field sensor	**GRY3** = RGB (3 colors, 3 states) **K** = IO-Link **S** = Modbus/PICK-IQ **RGB14** = RGB (14 colors, 15 states)	**Q** = M12 integral QD

Programmable Touchless Models

Series	Activation Method	Output State	Output Function	Color/Control	Connection
K50P	**FF50**	**A**	**M**	**GRY3**	**Q**
	FF50 = 50 mm fixed field* **FF100** = 100 mm fixed field* **FF200** = 200 mm fixed field*	**A** = Normally open	**M** = Momentary **L** = Latching	**GRY3** = Programmable multicolor (3 color, 5-pin) **RGB14** = Programmable multicolor (14 colors, 8-pin)	**Blank** = 2 m integral cable **Q** = 5-pin (GRY3 models) M12 QD or 8-pin (RGB14 models) M12 QD **QP** = 150 mm PVC cable with 5-pin (GRY3 models) M12 QD or 8-pin (RGB14 models) M12 QD

*Cutoff distance will vary from specified range based on target and tolerances

QD models require mating cordset

Programmable Touchless Models with IO-Link or PICK-IQ

Series	Activation Method	Control	Connection
K50P	**FF50**	**K**	**Q**
	FF50 = 50 mm fixed field* **FF100** = 100 mm fixed field* **FF200** = 200 mm fixed field*	**K** = IO-Link **S** = Serial/PICK-IQ™	**Q** = 4-pin integral M12 QD **QP** = 150 mm PVC cable with 4-pin integral M12 QD** **QPMA** = 150 mm PUR cable with 4-pin integral M12 QD** **Q2PS** = Dual 240 mm PVC shielded cables with 5-pin integral M12 QD†

*Cutoff distance will vary from specified range based on target and tolerances

QD models require mating cordset
**Available with IO-Link models only
†Available with PICK-IQ models only



Supply Voltage	Programmable: 12 to 30 V DC IO-Link: 18 to 30 V DC PICK-IQ: 10 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9*
Certifications	CE, cULus LISTED, UKCA

*Cabled models also meet DIN IP69K if the cable and cable entrance are protected from high-pressure spray

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K70 Touch Series

70 mm Multicolor Touch Button Indicators

- Capacitive touch technology requires no physical force to operate
- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Can be actuated with bare hands or in gloves
- Available in three color options and one-, two-, and three-color models

Standard Touch Models

Colors	Function	Output	Connection	Models
Green (activated)	Momentary	PNP & NPN	4-pin M12 integral QD	**K70ABT2XGHQ**
Green	Job light is on while input is active. Touch activates output.	PNP		**K70APT2GXDQ**
Green, red	Job light is green while job input is active. Touch activates output.			**K70APT2GRCQ**
				K70APT2GREQ
	Multipurpose			**K70APT2GRYF2Q**
Green, red, yellow	Job light always on with job input until touched. Touch activates output and overrides job light with sense light. Touch with inactive job input activates mispick light and activates output.			**K70APT2GRYC3Q**



Supply Voltage	12 to 30 V DC
Audible Intensity	95–103 dB at 1 m
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30LP | **SMB30A** | **SMB30FVK** | **SMB30RAVK** | **SMBAMS30P** | **SMB30MM** | **SSA-MBK-EEC1**



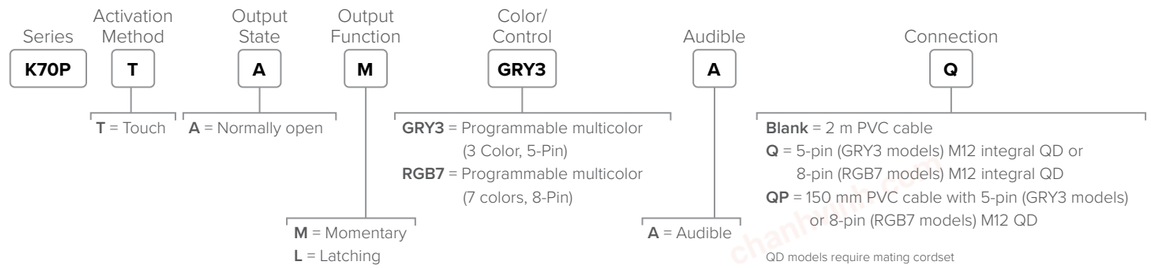


K70 Programmable Touch with Audible

70 mm Multicolor Touch Button Indicators

- Integrated audible alarm provides additional indication and feedback for enhanced operator experience and improved productivity
- Integral audible alarm can be toggled on and off discretely and as a function of touch logic
- Twelve different tones available, including intensity and input control
- Programmable using Banner's Pro Editor Software and Pro Converter Cable

Programmable Touch Models





Supply Voltage	12 to 30 V DC
Audible Intensity	95–103 dB at 1 m
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP65
Certifications	CE, cULus LISTED, UKCA

Brackets



SMB30LP | **SMB30A** | **SMB30FVK** | **SMB30RAVK** | **SMBAMS30P** | **SMB30MM** | **SSA-MBK-EEC1**

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K50 Programmable Touch with Display

50 mm Advanced Touch Button Indicators

- Four-digit, seven-segment LED display
- Two independent touch areas
- Clearly communicate status and receive feedback, improving throughput and productivity
- Ideal interface device for pick-to-light, condition monitoring, and general operator interaction in industrial environments
- Excellent immunity to false triggering by water spray, oils, and other foreign materials
- Can be actuated with bare hands or gloves

IO-Link and PICK-IQ Models

Series	Activation Method	Housing	Display	Control	Connection
K50P	**T**	**C**	**D4**	**K**	**Q**
	T = Touch	**C** = Compact	**D4** = 4-digit LED display	**K** = IO-Link **S** = PICK-IQ™	**Q** = 4-pin M12 integral QD **QP** = 150 mm cable with 4-pin M12 QD **Q2PS** = Dual 240 mm PVC shielded cables with 5-pin M12 integral QDs*

QD models require mating cordset

*Available with PICK-IQ models only



Supply Voltage	Programmable: 10 to 30 V DC IO-Link: 18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9**
Certifications	CE, cULus LISTED, UKCA

**Cabled models also meet DIN IP69K if the cable and cable entrance are protected from high-pressure spray

Brackets



SMB30A | **SMB30FVK** | **SMB30RAVK** | **SMBAMS30P** | **SMBAMS30RA** | **SMB30MM** | **SMB30SC** | **SMB30FA**



PTL110

Scalable, Versatile Pick-To-Light Devices

- Customizable pick-to-light logic with up to fourteen colors in one device
- Translucent face appears gray when off to avoid false indication
- M12 connector models for plug-and-play indication
- Wide 180° field of view
- Three-digit, fourteen-segment LED display
- Photoelectric and touch sensing options
- RS-485 Modbus communication featuring PICK-IQ™ technology for faster response speed

Series	Housing	Control		Sensor	Touch	Display		Connection
PTL	**110**	**S**	–	**FF100**	**T**	**D3**	–	**QP150**
		S = PICK-IQ™ Serial communicaton		**FF100** = 100 mm fixed-field **FF200** = 200 mm fixed-field **Blank** = No sensor input	**T** = Touch with indicator **L** = Indicator only	**D3** = 3-digit LED display **Blank** = No display		**QP150** = Dual 150 mm PVC cable with M12 QD **QPS150** = Dual 150 mm shielded PVC cable with M12 QD



Supply Voltage	10 to 30 V DC; 1.35 Watts max. power draw
Communication	PICK-IQ™ is compatible with Modbus RS-485 DXM700 converts Modbus RTU to Modbus TCP/IP or Ethernet/IP
Connected Devices	64 or more under standard usage with a single power supply >200 possible depending on power supply, cable length and device usage
Construction	Housing: ABS Indicator: Polycarbonate Display Lens: Acrylic (if present)
Operating Conditions	–40 to +50 °C
Environmental Rating	IP54
Certifications	CE, cULus LISTED, UKCA

Brackets



LMBPTL110C
For 28 mm Tubular Racking

LMBPTL110F
For Slotted Extrusion and Flat Rail Mounting

LMBPTL110A445
For Slotted Extrusion and Flat Rail Mounting

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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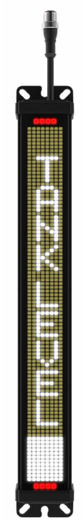
Display
Selection Guide



pg. 94



pg. 98



pg. 99



pg. 100



pg. 95

Series Name	K50 Touch Display	K50 I/O Controller with Display	SD50	K100	PTL110
Dimensions (mm)	ø 50	ø 50	386 x 52	ø 100	35 x 110
Number of Characters	4	4	16 or 29 scrolling	32 scrolling	3
IP Rating	IP67, IP69K	IP67, IP69K	IP65	IP65	IP66, IP67
Control Capabilities	✓	✓			✓
Programmable	✓	✓	✓	✓	✓
Communication Protocol	IO-Link® PICK-IQ®		IO-Link® Modbus	IO-Link® Modbus	PICK-IQ®



Programmable LED indicators offer multiple color choices in a single housing

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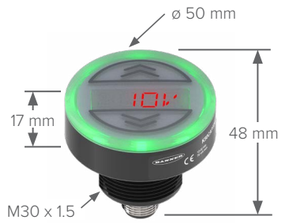
K50 I/O Touch Control with Display

50 mm Programmable Touch Button Indicators

- Onboard analog, PWM, PFM, and discrete outputs enable control of core applications such as adjusting VFD speed, dimming LED lights, and signaling part-picking details
- Two capacitive touch zones provide reliable input with gloved or bare hands—with no mechanical parts to wear out
- Four-character display improves operator response by showing output values and system messages
- Bright, multicolor LEDs provide operators with at-a-glance equipment status. All colors and animations are easily configured with Banner's free Pro Editor software

Series	Activation Method	Housing	Display	Mode	Connection
K50P	**T**	**C**	**D4**	**PICK**	**Q**
	T = Touch	**C** = Compact	**D4** = 4-Digit LED display	**UI4** = 0 to 10 V (4 to 20 mA) (pin 4) **UI5** = 0 to 10 V (4 to 20 mA) (pin 5) **PULS** = PWM/PFM **PICK** = Pick-to-Light	**Q** = M12 integral QD **Q2PS** = Dual 240 mm PVC-jacketed cables with 5-pin M12 integral QD* QD models require mating cordset

*Only available with UI4 models





Supply Voltage	UI4/UI5 models: 18 to 30 V DC PULS/PICK models: 12 to 30 V DC
Supply Current	225 mA at 12 V 100 mA at 24 V 85 mA at 30 V
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K
Certifications	CE cULus LISTED UKCA

Brackets



SMB30A **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMBAMS30RA** **SMB30MM** **SMB30SC** **SMB30FA**

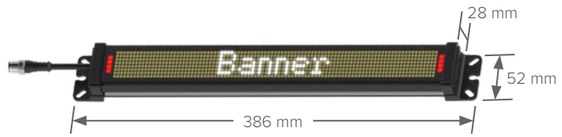


SD50 Status Display

50 mm Programmable Text and Multicolor LED Indicator

- Easily configurable, versatile display can be installed nearly anywhere, making it a simple yet powerful alternative to complex HMIs and other displays
- Great for displaying takt time, equipment status, assembly sequences, counts, and measurements where they are most useful
- Discrete and IO-Link models integrate into many different systems and applications, especially Banner sensing, safety, and monitoring solutions
- Quick and easy configuration—define the desired text and call it via discrete control or process data
- Bright white LED display and multicolored status LEDs legible from 10 meters away inform operators about exactly what is going on so they can respond quickly and accurately

Description	Display Length	Control	Connection	Models
SD50 Programmable Status Display	300 mm	Discrete	150 mm PVC-jacketed cable with 4-pin M12 male QD	**SD50P300WD15QP**
		IO-Link		**SD50P300WKQP**



Supply Voltage	18 to 30 V DC
Construction	Polycarbonate
Operating Conditions	–20 to +60 °C
Environmental Rating	IP65
Certifications	CE cULus LISTED UKCA

Brackets



LMBSD50 **LMBSD50MAG** **LMBSD50-180S** **LMBSD50-180SMAG**

Note: Not all models are shown. Visit bannerengineering.com for other available models.

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K100 Programmable Display

100 mm Beacons

- Improve awareness across a full 360-degrees with bright white alphanumeric display and dynamic color indication combined in a single rugged device
- Easily configure color, messages, and display behavior in discrete models with free software, or take full control via protocol with IO-Link and Modbus models
- Convey more detail with up to 32 scrolling alphanumeric characters legible from 10 meters
- Enhance visibility and status recognition with 14 distinct, configurable color options
- Make critical messages unmistakable with optional audible alerts that capture attention in noisy environments
- Integrate seamlessly into any system with discrete, IO-Link, and Modbus models

Series	Style	Type	Color	Control	Audible Alarm	Connection
K100P	D	BL	RGB	D15		Q
	D = Display	**BL** = Beacon light	**RGB** = Multicolor	**D15** = Discrete 15 states **K** = IO-Link **S** = Modbus	**Blank** = No audible **A** = Audible	**Q** = 5-pin M12 integral QD (Discrete) 4-pin M12 integral QD (IO-Link, Modbus)

QD models require mating cordset



M36 x 2.0 threaded base
Inner 3/4 in. NPT thread for direct pipe mounting

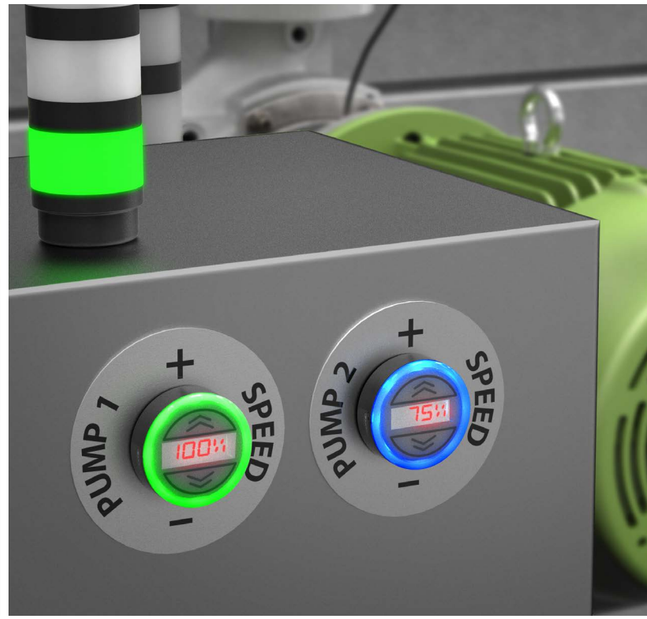
Supply Voltage	Discrete and Modbus: 12 to 30 V DC IO-Link: 18 to 30 V DC
Audible Alarm	101 dB at 1 m
Operating Conditions	–40 to +50 °C
Construction	Polycarbonate
Environmental Rating	IP66, IP69K

Brackets



LMB36RA







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Connectivity
Accessories

4-Pin M12 (Voltage: 250 V DC/AC, Current: 4 A)



	Length	Straight	Right-Angle	Pinout
4-Pin Female QD to Flying Leads	1 m	MQDC-403	—	Female: 1 = Brown, 2 = White, 3 = Blue, 4 = Black
	2 m	MQDC-406	MQDC-406RA	
	3 m	MQDC-410	—	
	5 m	MQDC-415	MQDC-415RA	
	9 m	MQDC-430	MQDC-430RA	
	15 m	MQDC-450	MQDC-450RA	
	18 m	MQDC-460	MQDC-460RA	
	21 m	MQDC-470	MQDC-470RA	
	30 m	MQDC-4100	MQDC-4100RA	22 AWG; Cable ø – 5.2 mm



	Length	Straight/Straight (female/male)	Straight/Right-Angle (female/male)	Pinout
4-Pin Double-Ended	0.3 m	MQDEC-401SS	MQDEC-401RS	Female / Male: 1 = Brown, 2 = White, 3 = Blue, 4 = Black
	0.6 m	MQDEC-402SS	—	
	0.9 m	MQDEC-403SS	MQDEC-403RS	
	1.8 m	MQDEC-406SS	MQDEC-406RS	
	3.0 m	MQDEC-410SS	—	
	3.6 m	MQDEC-412SS	MQDEC-412RS	
	4.5 m	MQDEC-415SS	—	
	6.1 m	MQDEC-420SS	MQDEC-420RS	
	9.2 m	MQDEC-430SS	MQDEC-430RS	
	15.2 m	MQDEC-450SS	MQDEC-450RS	22 AWG; Cable ø – 5.2 mm

5-Pin M12 (Voltage: 60 V DC/AC, Current: 4 A)



	Length	Straight	Right-Angle	Pinout
5-Pin Female QD to Flying Leads	0.9 m	MQDC1-503	—	Female: 1 = Brown, 2 = White, 3 = Blue, 4 = Black, 5 = Gray
	2 m	MQDC1-506	MQDC1-506RA	
	5 m	MQDC1-515	MQDC1-515RA	
	9 m	MQDC1-530	MQDC1-530RA	
	18 m	MQDC1-560	—	
	30 m	MQDC1-5100	—	22 AWG; Cable ø – 5.6 mm



	Length	Straight/Straight (female/male)	Straight/Right-Angle	Pinout
5-Pin Double-Ended	0.3 m	MQDEC-501SS	—	Female / Male: 1 = Brown, 2 = White, 3 = Blue, 4 = Black, 5 = Gray
	1 m	MQDEC-503SS	—	
	2 m	MQDEC-506SS	—	
	5 m	MQDEC-515SS	—	
	9 m	MQDEC-530SS	—	
	15 m	MQDEC-550SS	—	22 AWG; Cable ø – 5.6 mm

8-Pin M12 (Voltage: 30 V DC/AC, Current: 2 A)



	Length	Straight	Right-Angle	Pinout
8-Pin Female QD to Flying Leads Open Shield with Drain Wire	2 m	MQDC2S-806	MQDC2S-806RA	Female: 1 = White, 2 = Brown, 3 = Green, 4 = Yellow, 5 = Gray, 6 = Pink, 7 = Blue, 8 = Red
	5 m	MQDC2S-815	MQDC2S-815RA	
	10 m	MQDC2S-830	MQDC2S-830RA	
	16 m	MQDC2S-850	MQDC2S-850RA	
	31 m	MQDC2S-8100	—	24 AWG; Cable ø – 5.6 mm

4-Pin M12 PUR (Voltage: 250 V DC/AC, Current: 4 A)

	Length	Straight	Right-Angle	Pinout
4-Pin Female QD to Flying Leads	2 m	MQDC-406-PUR	MQDC-406RA-PUR	Female: 1 = Brown, 2 = White, 3 = Blue, 4 = Black
	5 m	MQDC-415-PUR	MQDC-415RA-PUR	
	10 m	MQDC-430-PUR	MQDC-430RA-PUR	22 AWG; Cable ø – 4.1 mm

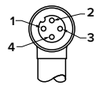
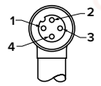


	Length	Straight/Straight (female/male)	Right-Angle/Straight (female/male)	Pinout
4-Pin Double-Ended	0.3 m	MQDEC-401SS-PUR	MQDEC-401SR-PUR	Female / Male: 1 = Brown, 2 = White, 3 = Blue, 4 = Black
	0.6 m	MQDEC-402SS-PUR	MQDEC-402SR-PUR	
	1 m	MQDEC-403SS-PUR	MQDEC-403SR-PUR	
	2 m	MQDEC-406SS-PUR	MQDEC-406SR-PUR	
	3 m	MQDEC-409SS-PUR	MQDEC-409SR-PUR	
	5 m	MQDEC-415SS-PUR	MQDEC-415SR-PUR	
	10 m	MQDEC-430SS-PUR	MQDEC-430SR-PUR	22 AWG; Cable ø – 4.1 mm

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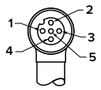
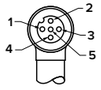
4-Pin M12 Lighted (Voltage: 10 to 30 V DC at 15 mA max)



	Length	Straight	Right-Angle	Pinout	
4-Pin PNP	2 m	MQDC-406-GYP	MQDC-406-GYPRA	Female 	1 = Brown 2 = White 3 = Blue 4 = Black (ouput LED)
	5 m	MQDC-415-GYP	MQDC-415-GYPRA		
	9 m	MQDC-430-GYP	MQDC-430-GYPRA	22 AWG	Cable ø – 5.2 mm
4-Pin NPN	2 m	MQDC-406-GYN	MQDC-406-GYNRA	Female 	1 = Brown 2 = White 3 = Blue 4 = Black (ouput LED)
	5 m	MQDC-415-GYN	MQDC-415-GYNRA		
	9 m	MQDC-430-GYN	MQDC-430-GYNRA	22 AWG	Cable ø – 5.2 mm

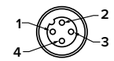
5-Pin M12 Lighted (Voltage: 10 to 30 V DC at 15 mA max)



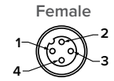
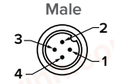
	Length	Straight	Right-Angle	Pinout	
5-Pin PNP	2 m	MQDC-506-GYP	MQDC-506-GYPRA	Female 	1 = Brown 2 = White 3 = Blue 4 = Black (ouput LED) 5 = Gray
	5 m	MQDC-515-GYP	MQDC-515-GYPRA		
	9 m	MQDC-530-GYP	MQDC-530-GYPRA	22 AWG	Cable ø – 5.6 mm
5-Pin NPN	2 m	MQDC-506-GYN	MQDC-506-GYNRA	Female 	1 = Brown 2 = White 3 = Blue 4 = Black (ouput LED) 5 = Gray
	5 m	MQDC-515-GYN	MQDC-515-GYNRA		
	9 m	MQDC-530-GYN	MQDC-530-GYNRA	22 AWG	Cable ø – 5.6 mm

4-Pin M12 Washdown (Voltage: 250 V DC/AC, Current: 4 A)



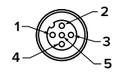
	Length	Straight	Pinout	
4-Pin	2 m	MQDC-WDSS-0406	Female 	1 = Brown 2 = White 3 = Blue 4 = Black
	5 m	MQDC-WDSS-0415		
	9 m	MQDC-WDSS-0430	22 AWG	Cable ø – 4.8 mm



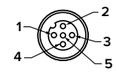
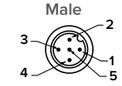
	Length	Straight/Straight	Pinout	
4-Pin Double-Ended	0.31 m	MQDEC-WDSS-401SS	Female 	1 = Brown 2 = White 3 = Blue 4 = Black
	0.91 m	MQDEC-WDSS-403SS		
	1.83 m	MQDEC-WDSS-406SS	Male 	
	3.7 m	MQDEC-WDSS-412SS	22 AWG	Cable ø – 4.8 mm

5-Pin M12 Washdown (Voltage: 60 V DC/AC, Current: 4 A)



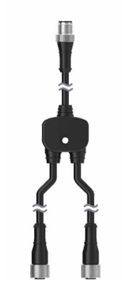
	Length	Straight	Pinout	
5-Pin	2 m	MQDC-WDSS-0506	Female 	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	5 m	MQDC-WDSS-0515		
	9 m	MQDC-WDSS-0530	22 AWG	Cable ø – 5.2 mm



	Length	Straight/Straight	Pinout	
5-Pin Double-Ended	1.5 m	MQDEC-WDSS-505SS	Female 	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	3 m	MQDEC-WDSS-510SS		
	4.57 m	MQDEC-WDSS-515SS	Male 	
			22 AWG	Cable ø – 4.8 mm

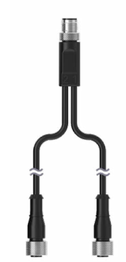
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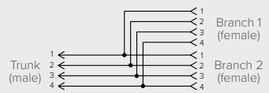
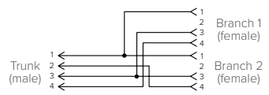
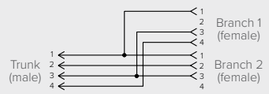
4-Pin M12 Splitters (Voltage: 250 V DC/AC, Current: 4 A)



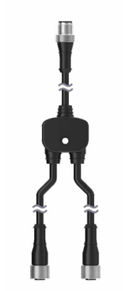
	Models	Cable Lengths		Pinout
		Trunk (Male)	**Branches** (Female)	
4-Pin	**CSB-M1240M1241**	No Trunk/Integral QD	2 x 0.3 m	Female: 1 = Brown, 2 = White, 3 = Blue, 4 = Black
	CSB-M1241M1241	0.3 m	2 x 0.3 m	
	CSB-M1243M1243	1 m	2 x 1 m	
	CSB-M1248M1241	2.4 m	2 x 0.3 m	
	CSB-M12415M1241	4.6 m	2 x 0.3 m	
	CSB-UNT425M1241	7.6 m Unterminated	2 x 0.3 m	**22 AWG** **Cable ø – 6.0 mm**

4-Pin M12 Splitters (Voltage: 30 V DC/AC, Current: 4 A)



	Models	Cable Lengths		Wiring Diagrams
		Branches (Female)	**Trunk** (Male)	
4-Pin	**S15YB-M124-M124-0.2M**	2 x 0.2 m	No Trunk	
	S15YA4-M124-M124-0.2M			
	S15YA24-M124-M124-0.2M			

5-Pin M12 Splitters (Voltage: 30 V DC/AC, Current: 2 A)



	Models	Cable Lengths		Pinout
		Trunk	**Branches**	
5-Pin	**CSB-M1251M1251B**	0.3 m (Male)	2 x 0.3 m (Female)	Female: 1 = Brown, 2 = White, 3 = Blue, 4 = Black, 5 = Gray
	CSB-M1251FM1251M	0.3 m (Female)	2 x 0.3 m (Male)	**22 AWG** **Cable ø – 5.9 mm**

Wall Plug Cordsets



Plug Type	Length	Countries	Models
Flying Leads	1.8 m	General use	**LQMAC-306**
NEMA 5-15 grounded (IEC Type B)		United States, Canada, Japan, Puerto Rico, Taiwan	**LQMAC-306B**
BS 546 (IEC Type D)		India	**LQMAC-306D**
CEE 7/7 (IEC Type E or F)		Germany, France, South Korea, The Netherlands, Poland, Spain, Turkey	**LQMAC-306EF**
BS 1363 (IEC Type G)		United Kingdom, Ireland, Singapore, Vietnam	**LQMAC-306G**
AS/NZS 3112 (IEC Type I)		China, Australia, New Zealand	**LQMAC-306I**
NBR 14136 (IEC Type N)		Brazil	**LQMAC-306N**
NEMA 5-15 grounded (IEC Type B)	3 m	United States, Canada, Japan, Puerto Rico, Taiwan	**LQMAC-310B**

Cascade Cordsets



	Length	Models
Male Straight/Male Straight	0.15 m	**LQMAEC-3005SS**
	0.31 m	**LQMAEC-301SS**
	0.91 m	**LQMAEC-303SS**
	1.83 m	**LQMAEC-306SS**
	3.66 m	**LQMAEC-312SS**
	6.1 m	**LQMAEC-320SS**
	9.14 m	**LQMAEC-330SS**

2-Pin Single Color Only Cordsets





	Length	Models
2-Pin Straight	1.83 m	**DTMC-206**
	4.57 m	**DTMC-215**
	9.15 m	**DTMC-230**
2-Pin Double-Ended	0.16 m	**DTMEC-2005**
	0.31 m	**DTMEC-201**
	0.91 m	**DTMEC-203**
	1.83 m	**DTMEC-206**
	3.66 m	**DTMEC-212**
	6.1 m	**DTMEC-220**
	9.15 m	**DTMEC-230**

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Programmable
Accessories



Pro Editor Cable Accessory Kit

Description	Length	Connections	Model
Pro Editor Software Adapter	1.83 m	USB and 5-pin M12 QD	**PRO-KIT**
Power Supply	2 m	5-pin M12 QD	
5-pin M12 Splitter	Female Trunk: 0.3 m Male Branches: 2 x 0.3 m	5-pin M12 QD	



Pro Editor Converter Cable

Description	Length	Connections	Model
Pro Editor Software Adapter	1.83 m	USB and 5-pin M12 QD	**MQDC-506-USB**



Programmable Mating Accessory

Description	Length	Connections	Model
Mating accessory for cabled and terminal models, Includes: Cable and 5 Lever Wire Nuts	150 mm (6 in)	5-pin M12 QD	**ACC-PRO-CABLE5**



Programmable Cordset

Description	Length	Connections	Model
A-Code M12 to A-Code M12 Double Ended	0.30 m	8-pin Straight Female, 5-pin Straight Male	**MQDC-801-5M-PRO**

Power
Accessories





5-Pin Power Supply

	Model	Input	Output	Length	Pinout
5-Pin	**PSW-24-1**	100 to 240 V AC	Voltage: 24 V DC ± 5% Current: 1.0 Amp Power: 24 W max.	2 m	Female 1 = V+ 2 = NC 3 = V- 4 = NC 5 = NC
	PSD-24-4	90 to 264 V AC	Voltage: 24 V DC ± 5% Current: 3.9 Amp Power: 96 W max.	1.5 m	



Inline AC/DC Power Converter*

AC Output	DC Output	Connector	DC Device Remote Input Type and Pin Assignment	Model
Normally Open, E/M Relay	PNP	150 mm PVC cable with an M12 QD	PNP on Pin 2	**SPS30PAR2PQ5**
			PNP on Pin 5	**SPS30PAR5PQ5**
			NPN on Pin 5	**SPS30PAR5NQ5**
	NPN			**SPS30NAR5NQ5**
	PNP	150 mm PVC cable with an M8 QD	NPN on Pin 2	**SPS30PAR2NQ3**

*For use with actuator products

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Switches and Dimming
Accessories

WLS28 In-Line Switches



Description	Used With	Models
2 position in-line switch	2-Wire DC LED lights	**WLS28PBQ**



3 position in-line switch	WLS28-2 and WLS28-2 dual color	**WLS28-2PBQ**



In-line motion detector switch	2-Wire DC LED lights	**WLS28-2MQ**



Three 2-position in-line switch	4-Wire DC LED lights	**LC28PB2-3Q**

LC15T and LC25T In-Line Touch Switches



Model Function	Power Applied	10%-90% PWM Output*	Output On 100%	Used With	Models
On/off	Red	N/A	Green	2-Wire DC devices	**LC15T-127AL2RGQP**
					LC25T-AL2RGQ
3-Wire PWM control		Blue		3-Wire PWM controlled devices	**LC15T-127AP1RBGQP**
					LC25T-AP1RBGQ
2-Wire PWM control		Blue		2-Wire PWM controlled devices	**LC15T-127AP2RBGQP**
					LC25T-AP1RBGQ

LC65 LED Dimmer Module



Connection	Pulse Width Modulation Type	Models
Terminal block	3-Wire	**LC65P1T**
	2-Wire	**LC65P2T**
1 - 150 mm 5-pin M12 PVC cable with a female, stainless steel QD 1 - 150 mm 4-pin M12 PVC cable with a female, stainless steel QD	3-Wire	**LC65P1Q5**
	2-Wire	**LC65P2Q5**

Standoff Pipe
Accessories

Standoff Pipes



Description	Construction	Length	Models
0.5 in NPT thread	Polished 304 Stainless Steel	150 mm	**SOP-E12-150SS**
		300 mm	**SOP-E12-300SS**
		900 mm	**SOP-E12-900SS**
	Black Anodized Aluminum	150 mm	**SOP-E12-150A**
		300 mm	**SOP-E12-300A**
		900 mm	**SOP-E12-900A**
	Clear Anodized Aluminum	150 mm	**SOP-E12-150AC**
		300 mm	**SOP-E12-300AC**
		900 mm	**SOP-E12-900AC**
0.75 in NPT thread	Black Anodized Aluminum	150 mm	**SOP-E34-150A**
		300 mm	**SOP-E34-300A**
		600 mm	**SOP-E34-600A**
		900 mm	**SOP-E34-900A**

Adapters and Covers



Description	Construction	Models
M36 thread to 12-14 NPSM thread base	Black plastic	**SA-M36E12**
M36 thread with clearance for 0.75 in pipe	Black plastic	**SA-M36SOP**
Mounting base, M30 x 1.5 thread (for use with TL50)	Black ABS	**SA-M30TE12**
	White UHMW	**SA-M30TE12C**
M30 x 1.5 thread (for use with K70 and K90 EZ-Light)	Black polycarbonate	**SA-M30**
	Gray polycarbonate	**SA-M30C**
30 mm light base to 0.5 in pipe (mounting hardware included)	Black ABS	**SA-E12M30**
	White UHMW	**SA-E12M30C**
22 mm light base to 0.5 in pipe	Black polycarbonate	**SA-M22E12**

Pipe Mounting Flange



Description	Construction	Models
0.5 in NPSM/DN15 Elevated-use standoff pipe (M5 mounting hardware and nitrile gasket included)	Die-cast zinc base with black paint	**SA-F12**
	Black polycarbonate	**SA-F12-3**

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Audible Indication



K50 Programmable Compact Audible

K50 Programmable Compact Audible Indicators are a bright, sealed indicator, designed with an integrated audible alarm. It offers fourteen different tones that can be customized and adjusted to different intensity levels. All K50 models are programmable using Banner's Pro Editor Software or IO-Link. It offers seven default colors in one multicolor RGB device and is available without indication.



TL50 Audible

TL50 Programmable Audible Indicators are rugged and easy to install. Audible models are available with standard, sealed, or omni-directional audible element.



TL70 Audible

TL70 Tower Lights feature adjustable audible modules for tremendous flexibility and can be customized as needed.



TL15 Audible

TL15A in-line audible alert indicators can be used as standalone devices, connected in-line with TL15 tower lights, or paired with sensors so users can receive color status and audio alerts locally.

Hazardous Location



HLS27 Bright LED Strip Lights

HLS27 LED Strip Lights for hazardous locations have a sturdy aluminum housing and are encased in a shatterproof, UV-stabilized polycarbonate shell, making them ideal for harsh indoor and outdoor applications. The option of having multiple colors in one device makes this ideal for mobile vehicle, machine status, and vision lighting applications. It has certifications for cULus and ATEX/UKCA/IECEx.



HLS28 LED Strip Lights for Enclosures

HLS28 Hazardous Location LED Strip Lights have a sturdy aluminum housing, shatterproof windows, and a low-profile, space-saving design for use in certified enclosures in hazardous locations. The light is available with an integrated motion sensor for auto-on when the enclosure door is opened, or anytime motion is detected. It has certifications for cULus and ATEX/UKCA/IECEx.



K30 30 mm Multicolor Indicators

Rugged, cost-effective multicolor indicator light made for use in hazardous areas. It is ATEX, CSA c/us, and IECEx certified; fully sealed; and rated to IP67/IP69K for harsh environments.



K50 50 mm Multicolor Indicators

K50L indicators feature an illuminated dome for easy-to-see operator guidance and indication of equipment status. Ideal for use in hazardous areas, it is rated IP67/IP69K for washdown and has certifications in ATEX, CSA c/us, and IECEx.



K100 Programmable Hazardous Beacons

K100 Programmable Hazardous Beacons are designed for use in oil, gas, and other hazardous locations. With an environmental rating of IP66 and IP69K, these durable hazardous models can withstand high temperatures, protect against vibration, and are dustproof. They are rated cULus, CID2, CIID2, CIIID1, and CIIID2 for use in settings in which flammable gases, vapors, mists, or dusts are present.

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Heavy Duty and Washdown



RLS27 Rugged LED Strip Lights

The RLS27 Strip lights feature a shatterproof, UV-stabilized polycarbonate shell that provides superior environmental resistance. Along with a sturdy aluminum inner housing and waterproof IP67/IP69K-rated design, these highly efficient strip lights deliver reliable operation in the most challenging environments. Choose from single-color, multicolor, or programmable models.



WLS27 LED Strip Lights

Banner's WLS27 LED Strip Lights have a sturdy internal aluminum structure, encased in shatterproof, UV-stabilized, copolyester shells, making them ideal for harsh indoor and outdoor applications.



WLC60 Heavy Duty LED Strip Lights

Designed to operate in harsh environments, the WLC60 can withstand high-pressure washdown and exposure to coolants and detergents.



WLH60 High Temperature LED Lights

Banner's WLH60 is a heavy-duty LED light fixture offering best-in-class brightness to illuminate applications in high-temperature environments. Its rugged, heat-resistant design enables installation in or near high-temperature areas that challenge other lighting solutions.



WLC90 Heavy Duty LED Work Lights for High Temperatures

Designed to operate in harsh environments, the WLC90 can withstand high-pressure washdown and exposure to coolants and detergents.



WLA LED Area Lights for Industrial Work Cells

Developed for lighting industrial work cells, including areas with exposure to liquids, such as food and beverage processing applications.

Vision Lighting



Linear Array Lights

Linear Array Lights provide high-intensity illumination of large areas, at long distances.



Linear Array Backlights

Linear Array Backlights provide maintenance-free LED illumination of large objects from far away.



Area Lights

Area Lights create shadows to detect changes in depth, illuminate specific surface angles, and avoid glare from reflective surfaces when directed at an angle away from the lens.



Backlights

Backlights offer a highly diffuse surface and uniform brightness, with a lower intensity than other lights.



Ring Lights

Ring Lights brightly illuminate small objects and reduce shadows on images with protrusions.



Low-Angle Ring Lights

Low-Angle Ring Lights illuminate from an angle nearly perpendicular to objects to emphasize surface irregularities such as dust, dents, scratches and other surface defects.



Spot Lights

Spot Lights provide extremely bright, even light with a single high-power LED.



On-Axis Lights

On-Axis Lights evenly illuminate flat reflective surfaces and deliver collimated illumination in the same optical path as a camera.



Structured Lights

A laser line generator is an example of a structured lighting scheme. This technique uses a high-quality, uniform laser line to infer the presence of a difficult-to-see target.

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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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