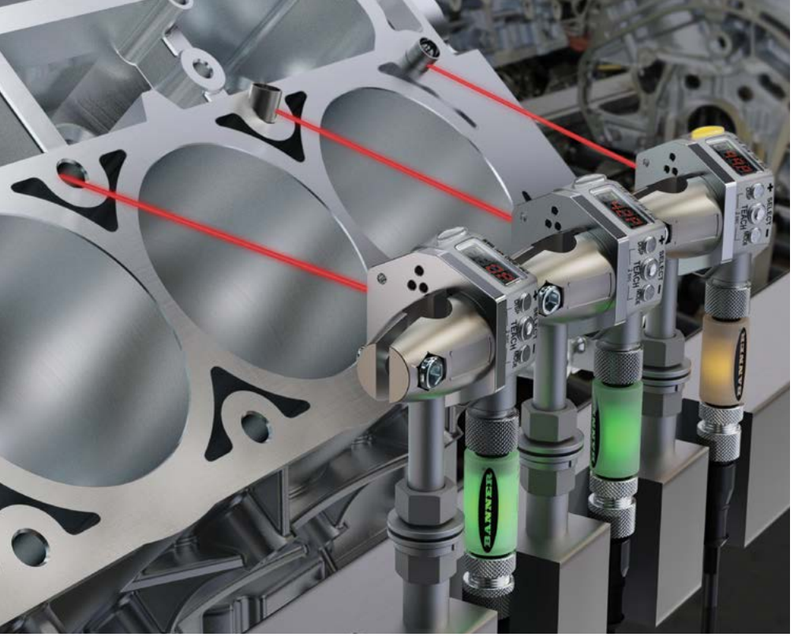
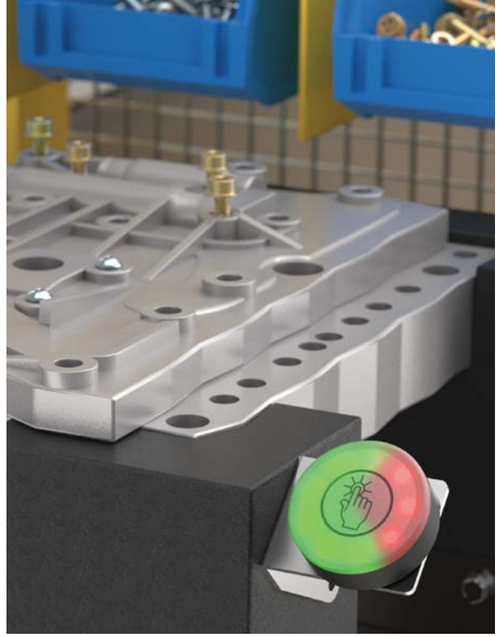
Lighting & Indication Solutions

BANNER®

more sensors, more solutions





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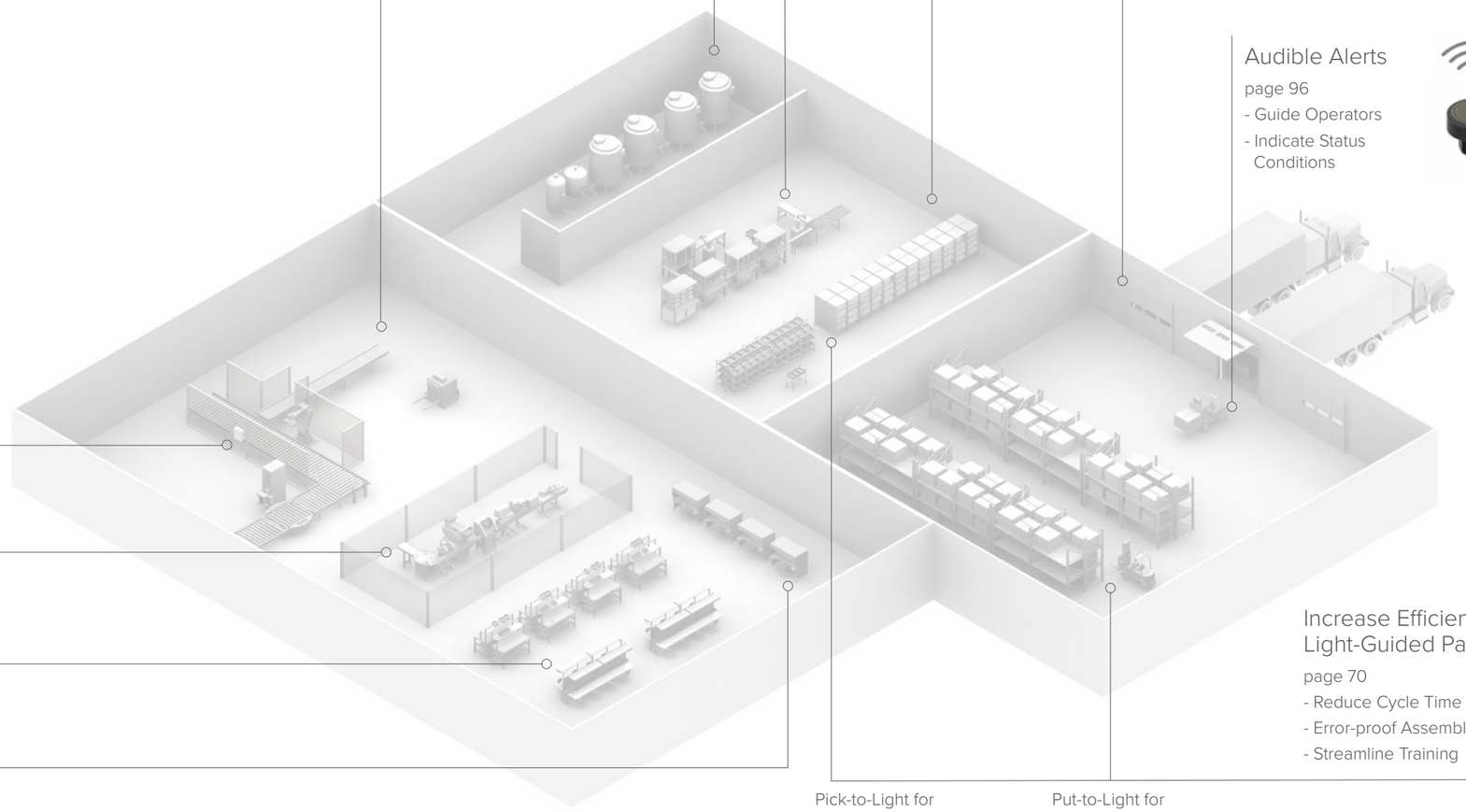
Light Up the Visual Factory

- 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 32, 48

- Empower Operators
- Alert Supervisors
- Accelerate Resolution

Audible Alerts

page 96

- Guide Operators
- Indicate Status Conditions

Increase Efficiency with Light-Guided Part Picking

page 70

- 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

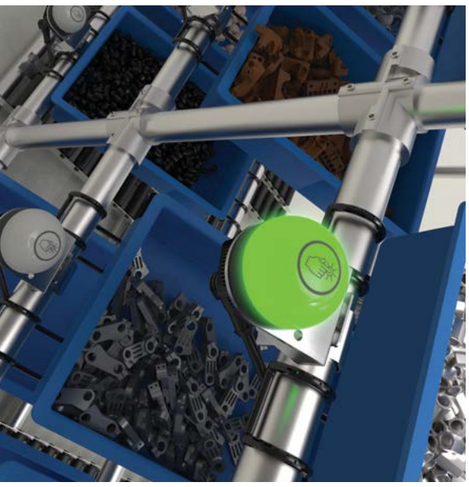
Multiple colors in one unit with flexible I/O configuratuion

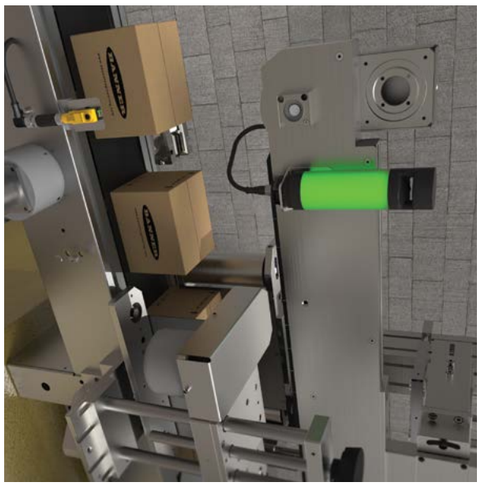
Cascadeable lights

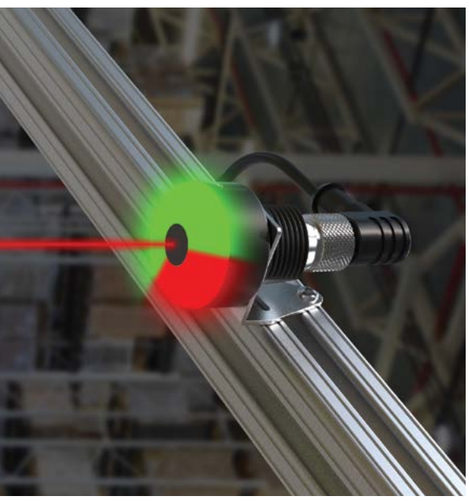
Magnetic mounting options for easy installation and portability

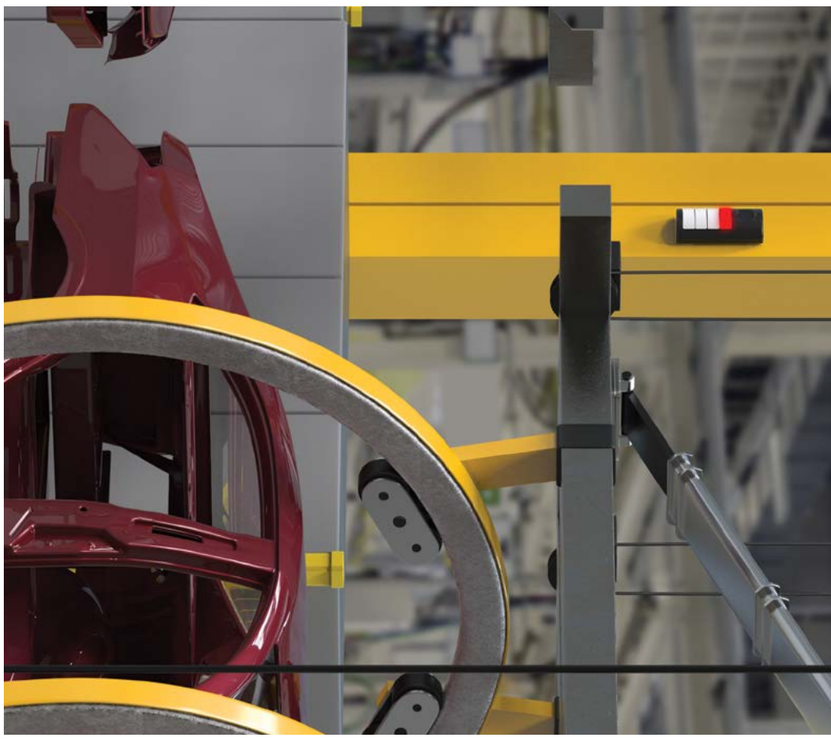
Light sections can be permanently laser marked with custom text or images

New Products









New Products

K50 Pro Touch with Display

- Four-digit, seven-segment LED display
- Two independent touch areas
- Allows users to 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

K30 Pro Optical Sensor

- 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 prevents contamination and eliminates the need for physical force to operate
- Adjustable range from 20 to 1000 mm for detection where needed; ignores objects in the background
- Configurable indication states show target position/distance

CL50 Pro Column Lights

- Rugged, versatile, and easy-to-install multicolor indicators
- Bright, easy-to-see operator guidance and indication of equipment status
- Programmable using Pro Editor Software or dynamically controlled with IO-Link
- Customized indication possibilities, including color, flash patterns, and light intensity control
- Audible models available with sealed, omni-directional audible element

TL15 In-Line Tower Lights

- 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 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

TLF100 Pro Flush Mount Tower Lights

- Rugged, versatile, and easy-to-install three- and four-segment tower lights
- Flush mounting allows for easy integration of machines and equipment
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Audible models available with sealed audible element, twelve 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 have bright, single-color LEDs for highly visible indication in indoor and outdoor applications

K50 Pro Touch Buttons

- Integral audible alarm has twelve 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 a standalone indicator or in conjunction with touch conditions
- Can be actuated with bare hands or gloves
- Compact models available for lower profile applications
- Configurable input/output with Pro Editor Software

K100 Pro Beacons

- 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
- Multiple colors in one device
- Programmable using Banner's Pro Editor Software and Pro Converter Cable (DC models)
- Rugged UV-stabilized polycarbonate base and window
- Audible models available with volume from 93-101 dB at 1 m

TL50 Andon Tower Lights

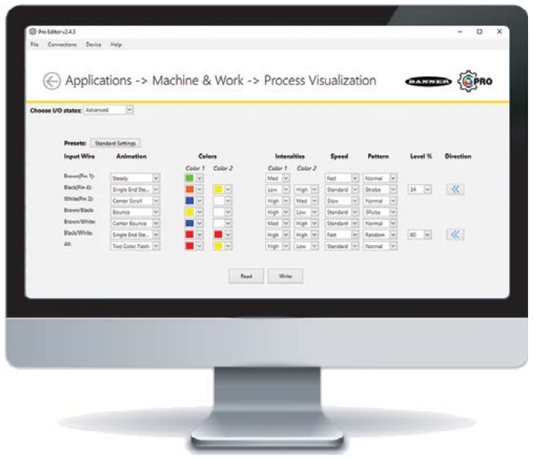
- Model options for 3 or 4 color segments, with or without omnidirectional audible
- Tower light segments appear grey when powered off, eliminating false indication from ambient conditions
- Available in two color combinations: green, yellow, and red or blue, green, yellow and red

and LCA130T Andon Control Box

- Rugged, cost-effective, and easy-to-install standalone lighting control box
- Integral 4 or 5 capacitive touch button controller with programmable LEDs and discrete outputs
- Two M12 connectors for easy installation

Pro Products

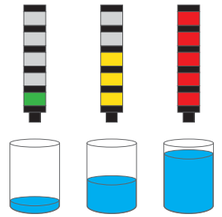
The Pro Series programmable multicolor LED devices from Banner Engineering offer limitless possibilities for advanced indication of dynamic machine states, operator interaction, and process status. The Pro Series is ideal if you are looking for advanced capabilities or flexibility beyond a traditional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



Software for Programmable Devices

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

Modes and Animations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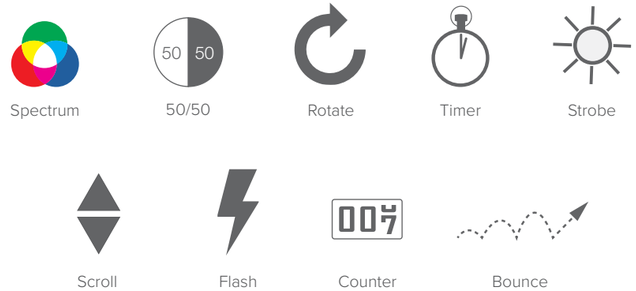

	S22 Pro Indicator and Touch Button	K30 Pro Indicator and Touch	K50 Pro Indicator	K50 Pro Touch	LCA130T	CL50 Pro	TL50 Pro	TL70 Pro	K90 Pro	K100 Pro	TLF100 Pro	WLS15 Pro	WLS27 Pro	WLS28 Pro	PTL110
	pg. 72	pg. 58, 75	pg. 61, 63	pg. 77, 78, 79	pg. 39	pg. 37	pg. 42	pg. 45	pg. 67	pg. 68	pg. 46	pg. 54	pg. 55	pg. 56	pg. 84
PRO allows simple control via discrete inputs with advanced options, configurable colors, animations, and much more.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IO-Link® is an open standard serial communication protocol that allows for the bi-directional exchange of data from IO-Link supported sensors that are also connected through a master.		✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	
PICK-IQ® is a purpose-built, Modbus-compatible serial bus protocol that uses a Common ID to reduce the typical latency that results from polling multiple devices.		✓	✓	✓								✓			✓

PRO Programmable LED indicators offer multiple color choices in a single housing

LED Task Lighting

Selection Guide

	S15WL	WLS15	WLS27	WLS28-2	WLB32	WLS70	WLB72	WLB92	WLC60	WLH60 High Temp	WL50S	WL50-3	WLC90	WLA-2
	pg. 14	pg. 15	pg. 16	pg. 18	pg. 20	pg. 21	pg. 22	pg. 23	pg. 24	pg. 25	pg. 26	pg. 27	pg. 30	pg. 31
Length (mm)	28	220 to 1200	145 to 1130	145 to 1130	285 to 1130	300 to 1200	1200 and 2400	550 and 1100	340 and 640	340 and 640	ø 50	ø 50	89 x 91	105 x 180 to 360 x 180
AC/DC	DC	DC	DC	DC	AC and DC	AC and DC	AC	AC and DC	DC	DC	DC	DC	DC	DC
White Lumens per Foot (300 mm)	55	350 standard 750 high intensity	800	800	750	1350	1700	1755	1300	1150	295	300	700	1025 per panel/size
IP Rating	IP65, IP67, IP68	IP66, IP67	IP66, IP67, IP69K	Unsealed: IP50 Sealed: IP67, IP69K	IP50	IP65	IP20	IP40	IP68, IP68g, IP69K	IP68, IP69K	IP67, IP69K	IP67, IP69K	IP68, IP68g, IP69K	Sealed: IP67, IP69K Encapsulated: IP67, IP68, IP69K
Programmable		PRO IO-Link® PICK-IQ® (see pg. 54)	PRO IO-Link® (see pg. 55)	PRO IO-Link® (see pg. 56)										
Multicolor Options		✓	✓	✓										

PRO

Programmable LED indicators offer multiple color choices in a single housing

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**

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	

Brackets

LMBM12MAG
Attaches to M12 cordset end

LMBM12SP
Attaches to M12 cordset end

LMBS15MAG
Magnetic Mount

LMBS15SP

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

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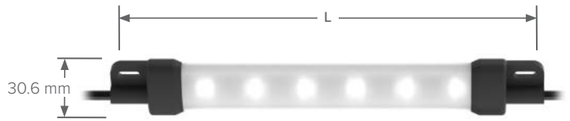


Length (L)

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	

Brackets

LMBWLS15-150S

LMBWLS15

LMBWLS15MAG
Magnetic Mount

LMBWLS15TF
Tape

LMBWLS15TD
Velcro

Pro Models page 54

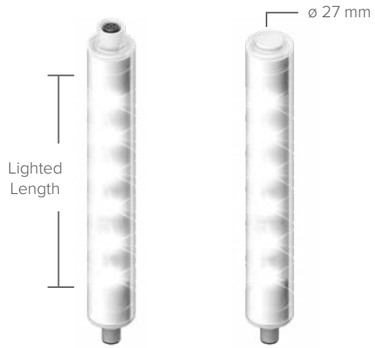
Note: Not all models are shown. Visit bannerengineering.com for other available models.

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 lifetimez

*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

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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.

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

Brackets

SMBWLS28RA
Top Mount (included)

SMBWLS28SM
Side Mount

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

SMBWLS28SP
Snap Mount

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

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

WLB32

LED Strip Lights

- Energy efficient for overall cost savings
- Hi/Low/Off switch allows users to customize light levels
- 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
- Available in AC or DC models
- Available in 285 mm, 570 mm, 850 mm, or 1130 mm
- 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	Control	Connector	Plug Type (AC Models)
WLB32	**Z**	**C**	**285**		**PB**	**QM**	**B**
	Z = AC **Blank** = DC	**C** = Cascadable	**285** **570** **850** **1130**	**Blank** = No eye shield **E** = Eye shield	**Blank** = No switch **M** = Motion switch **PB** = Hi/Low/Off	**Blank** = Cable (DC) **Q** = M12 QD (DC) **QM** = AC QD models require mating cordset	**B** = North and Central America, Japan, Taiwan **EF** = France, Belgium, Slovakia, Tunisia, Germany, Austria, Netherlands, Spain, S. Korea **N** = Brazil, South Africa **C** = AC connector with flying leads **Blank** = No power cord

Lighted Length (L)

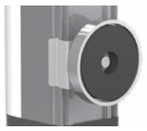
285 mm	850 mm
570 mm	1130 mm

Supply Voltage	DC: 12 to 30 V DC AC: 90 to 264 V AC
Lumens	750–3000
Construction	Housing: Anodized aluminum Window: Polycarbonate End caps: Polycarbonate
Operating Conditions	DC: –40 to +70 °C AC: –25 to +45 °C
Environmental Rating	IP50
Certifications	

Brackets

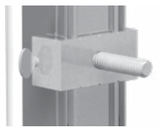
LMBWLB32

LMBWLB32-180S



LMBWLB32MAG
Magnetic Mount

LMBWLB32U



LMBWLB32UT

WLS70

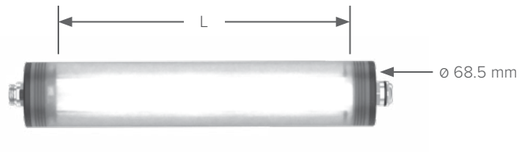
Sealed High-Output Strip Lights

- 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 94



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

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

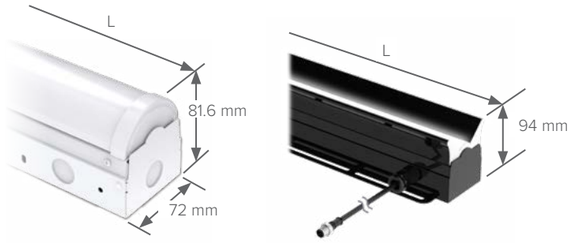
WLB72

Industrial LED Light Bars

- Provides improved visibility with bright, uniform illumination
- Reduces costs through high-efficacy, low-maintenance design
- Simplifies installation and wiring with versatile, reliable hardware
- WLB72 Inspection models are available with a focused light that produces a “zebra” pattern to help workers identify flaws and extended eye shields designed for automotive inspection applications

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

WLB92

Industrial LED Light Bars

- 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	○ **Blank** = Daylight white ○ **WW** = Warm white ● **R** = Red ● **G** = Green ● **B** = Blue ● **Y** = Yellow	**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

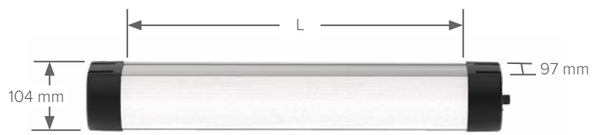
*Models include dimming knob for manual intensity control

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	○ **Blank** = Daylight white ○ **WW** = Warm white ● **R** = Red ● **G** = Green ● **B** = Blue ● **Y** = Yellow	**550** **1100**	**A** = 0–10 V analog dimming (CT models) **PB** = Switch, dimming knob (AC QM models)	**QM** = AC* **CT** = Conduit entry**	**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 includ dimmability via a 0 to 10 V input circuit
†Only needed for AC QM models

Dimming Accessories page 94



Lighted Length (L)
550 mm 1100 mm

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	

*Depending on length and color

Brackets

LMBWLB92

LMBWLB92CLIP

LMBWLB92S

LMBWLB92HK5
Suspended

LMBWLB92RAS

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

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

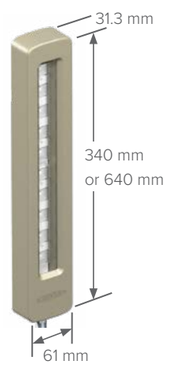
Series	Cascadable	LED Color	Length (mm)	Window	Mounting Type	Construction	Connector Exit	Control	Connector
WLC60	**X**	**W**	**340**	**G**		**A**			**Q**
	C = Cascadable **X** = Non-cascadable	**W** = Cool white **WW** = Warm white** **R** = Red** **G** = Green** **B** = Blue** **Y** = Yellow**	**340*** **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

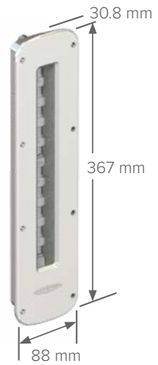
QD models require mating cordset

Dimming Accessories page 94

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 borosilcate 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**	**G**	**B**
	X = Non-cascadable	**W** = Cool white	**340** **640**	**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

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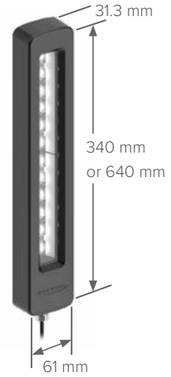

Supply Voltage	21 to 28 V DC
Lumens	340 mm = 1150 640 mm = 2300
Construction	Housing: Black electro-coated aluminum Window: Polycarbonate or borosilcate glass
Operating Conditions	–40 to +100 °C
Environmental Rating	IP68, IP68G, IP69K per DIN 40050
Certifications	CE cULus LISTED UKCA

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.

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 94

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 94

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 28 for more information

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

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	

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	

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**

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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.

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 94

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

WLA-2

LED Area Lights

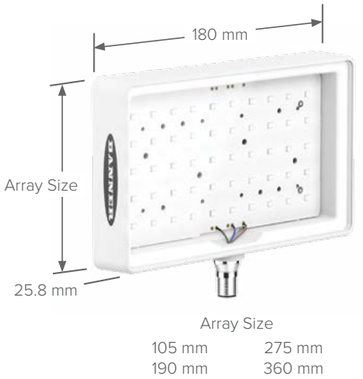
- An LED dense array with high output ideal for area lighting, machine lighting, and machine vision
- Illuminates a large area with an even pattern of light and no shadows
- Rugged thermoplastic housing rated to IP69K for heavy duty washdown
- Encapsulated housing option rated IP68 for prolonged exposure 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 94



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)

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

Tower Lights
Selection Guide

Page	pg. 34	pg. 35	pg. 38	pg. 37	pg. 39	pg. 42	pg. 40	pg. 41	pg. 44	pg. 46
Series Name	**TL15**	**WLS27**	**TL30 Series**	**CL50 Series**	**TL50 Andon Series**	**TL50 Series**	**TL50C Series**	**TL50BL Series**	**TL70 Series**	**TLF100 Pro**
Segment Diameter (mm)	15	27	30	50	50	50	50	50	70	100
Mounting Hole Diameter (mm)	–	–	30	30	–	30	30	30	30	–
AC/DC	DC	DC	DC	DC	DC	AC or DC	AC or DC	AC or DC	AC or DC	DC
IP Rating	IP66, IP67, IP68	IP66, IP67, IP69K	IP65	IP67	IP54	IP67	IP67	IP67	IP65	IP65, IP69K
Programmable		PRO IO-Link® (see pg. 55)		PRO IO-Link®		PRO IO-Link®	PRO IO-Link®	PRO IO-Link®	PRO IO-Link®	PRO IO-Link®
Multicolor Options		✓		✓		✓	✓	✓	✓	✓
Audible	✓		✓	✓	✓	✓	✓	✓	✓	✓
Daylight Visible						✓		✓		✓
Wireless									✓	
Modular Construction	✓								✓	

PRO

Programmable LED indicators offer multiple color choices in a single housing

TL15

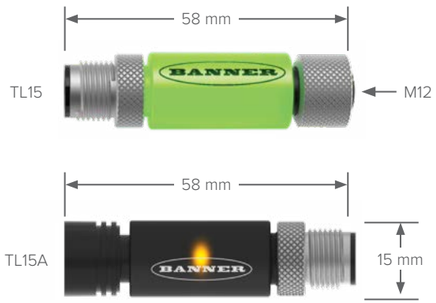
In-Line Tower Light Indicators

- 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

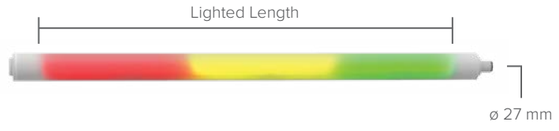
- **GRX2S-0285** = Two 145 mm segments; green, red
- **GRX2S-0570** = Two 285 mm segments; green, red
- **GYR3S-0430** = Three 145 mm segments; green, yellow, red
- **GYR3S-0850** = Three 285 mm segments; green, yellow, red

- **D** = Diffuse plastic
- **H** = Heavy diffuse plastic

- **S** = Sealed
- **24** = 24 V DC
- **Q** = M12 integral QD

QD models require mating cordset

PRO
Pro Models pages 55



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.

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

Core 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

General-Purpose | Audible | Sealed Audible | Sealed Omni-Directional

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	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)

Pro Models

Same Functionality as Core 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

Pro Models

Series	Style	Color and Input	Audible Alarm	Connection
CL50	**P**	**RGB7**	**A**	**Q**
	P = Pro	**RGB7** = RGB multicolor (7 colors)	**Blank** = None **A** = Omni-directional sealed audible	**Blank** = 1.2 m integral cable **Q** = 5-pin M12 integral QD

Pro Models with IO-Link

Series	Style	Audible Alarm	Control	Connection
CL50	**P**	**A**	**K**	**Q**
	P = Pro	**Blank** = None **A** = Omni-directional sealed audible	**K** = IO-Link	**Q** = 4-pin M12 integral QD

Pro | Pro Audible

Supply Voltage	Pro: 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	CE, cULus LISTED, UKCA

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

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

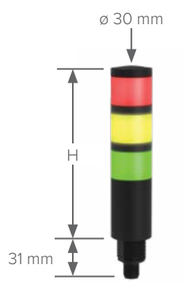
N = None
A = Audible

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	CE, cULus LISTED, UKCA

*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

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

Standalone Control Box Models

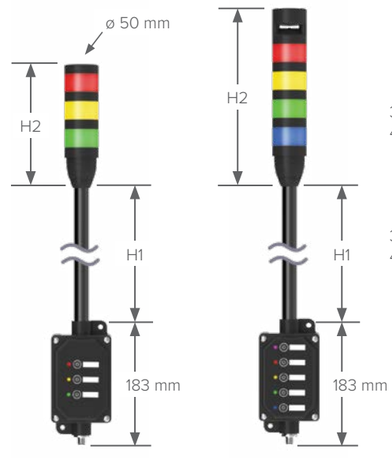
Series	Activation Method	Number of Touch Inputs	Connection
LCA130	T	5	Q

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	CE, cULus LISTED, UKCA

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

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

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Core 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

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Core 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**

- Supply Voltage: **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
- Audible Alarm: **Blank** = None (IP67); **A** = Audible (IP50); **ALS** = Sealed audible continuous tone with intensity adjust; **AOS** = Omni-directional sealed audible; **AOSI** = Omni-directional sealed audible
- Control: **Blank** = Standard
- Housing Color: **Blank** = Black; **C** = Gray
- Connection: **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)

*Not available with audible

QD models require mating cordset

Core Compact Models

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

- Supply Voltage: **Blank** = 12 to 30 V DC or 21 to 26 V AC; **Z** = 100 to 240 V AC
- Color Position: **G** = Green; **Y** = Yellow; **R** = Red; **B** = Blue; **W** = White
- Audible Alarm: **Blank** = Black; **C** = Gray
- Connection: **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)

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

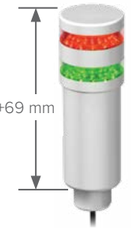
QD models require mating cordset

Laser Marking Available

Audible Alarms

Beacon

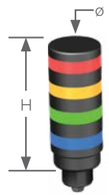
Beacon 100 to 240 V AC



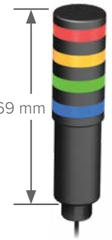
Tower Height (H)

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.

TL50 Pro Series

50 mm Programmable Tower Lights

- 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

Pro Models

Series	Housing	Number of Segments	Audible Alarm	Housing Color	Connection
TL50P	Blank	3	A	Blank	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

Pro Models with IO-Link

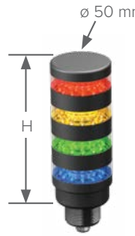
Housing	Number of Segments	Audible Alarm	Control	Housing Color	Connection
TL50	3	A	K	Blank	Q
TL50 = Standard **TL50C** = Compact **TL50BL** = Beacon	**1** = 1 segment **2** = 2 segments **3** = 3 segments **4** = 4 segments **5** = 5 segments **6** = 6 segments **7** = 7 segments **8** = 8 segments **9** = 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

Pro

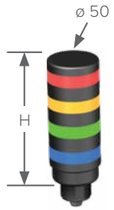
Tower Height (H)	
1 segment	61 mm
2 segments	102 mm
3 segments	143 mm
4 segments	183 mm
5 segments	224 mm
6 segments	265 mm
7 segments	305 mm

Pro 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

Pro 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

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	Style	Number of Segments	Audible Alarm	Control	Connection
TL50	PS	3	A	Blank	Q
PS = Pro Select	**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

Pro

Audible Alarms

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	Pro: 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	

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)

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

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

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

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
- **Q8** = 8-pin M12 integral QD†

QD models require mating cordset

Housing Color:
- **Blank** = Black
- **C** = Gray

Preassembled Core 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

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

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†

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

Pro Models

Same Functionality as Core with Additional Features Below

- Pro series tower lights provide classic segment control as well as advanced status indication that adds nuance to the visual factory
- Allows users to configure color, flashing, rotation, and light intensity
- Models with IO-Link communication enable almost limitless capacity for custom indication

Pro Segments or Pro Segment Models

Housing: **SG-TL70** Style: **P** – Color: **RGB** Housing Color: ☐

Style:
- **P** = Pro

Color:
- **RGB** = RGB configurable

Housing Color:
- **Blank** = Black
- **C** = Gray

Pro Bases or Pro Base Models

Housing: **B-TL70** Style: **P** Control: **K** – Connection: **Q** Housing Color: ☐

Style:
- **P** = Pro

Control:
- **K** = IO-Link

Connection:
- **Q** = 4-pin M12 integral QD
- **QP** = 4-pin 150 mm cable with M12 QD

QD models require mating cordset

Housing Color:
- **Blank** = Black
- **C** = Gray

Preassembled Pro Models with IO-Link

Housing: **TL70** Style: **P** Number of Segments: **3** Audible Alarm*: **A** Control: **K** Housing Color: ☐ Connection: **Q**

Style:
- **P** = Pro

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

*Not available with six-light models

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

QD models require mating cordset

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)

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

TLF100 Pro

Flush Mount Tower Lights

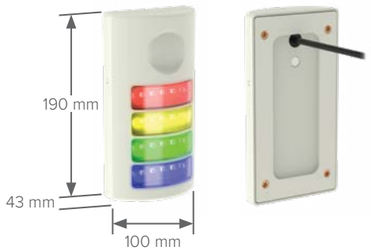
- Rugged, versatile, and easy-to-install three and four-segment tower lights
- Flush mounting allows for easy integration to machines and equipment
- Illuminated segments provide easy-to-see operator guidance and indication of equipment status
- Audible models available with sealed audible element, fourteen 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

Pro Models

Series	Style	Number of Segments	Audible Alarm	Control	Housing Color	Connection
TLF100	**P**	**3**		**K**		**QP**
	P = Pro	**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

Pro Daylight Visible Models

Series	Style	Housing	Color/Position 1	2	3	4	Audible Alarm	Connection
TLF100	**P**	**DL**	**G**	**Y**	**R**			**QP**
	P = Pro	**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	Pro: 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

Indicators
Selection Guide

Page	pg. 50	pg. 51, 52	pg. 53	pg. 54	pg. 55	pg. 56	pg. 37	pg. 58	pg. 61, 63	pg. 64	pg. 67	pg. 68
Series Name	**S15L**	**S18L/S22L**	**S22 Pro**	**WLS15 Pro**	**WLS27 Pro**	**WLS28 Pro**	**CL50 Series**	**K30 Series**	**K50 Series**	**K70 Core**	**K90 Series**	**K100 Pro**
Housing Diameter (mm)	15	18	20	15	27	28	50	30	50	70	90	100
Mounting Hole Diameter (mm)	–	18/22	22	–	–	–	30	30	30	30	30	36
AC/DC	DC	DC	DC	DC	DC	DC	AC or DC	DC	DC	DC	DC	AC or DC
IP Rating	IP66, IP67, IP68	IP67, IP69K	IP66, IP67, IP69K	IP66, IP67	IP66, IP67, IP69K	Unsealed: IP50 Sealed: IP67, IP69K	IP67	IP67, IP69K	IP65, IP67, IP69K	IP65	IP66, IP67	IP69K
Programmable			PRO	PRO IO-Link® PICK-IQ®	PRO IO-Link®	PRO IO-Link®	PRO IO-Link®	PRO IO-Link® PICK-IQ®	PRO IO-Link® PICK-IQ®		PRO IO-Link®	PRO (DC models only)
Multicolor Options	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Audible							✓		✓			✓
Daylight Visible		✓							✓			✓

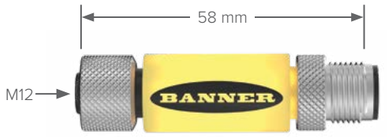
PRO — Programmable LED indicators offer multiple color choices in a single housing

S15L Series

In-Line Sensor Status Indicators

- Two-color indicators available with green to show power and yellow or red to mimic the output status
- Mount directly on a sensor for 360-degree visibility of power and status
- Highly visible body allows workers to identify and troubleshoot problems faster
- Overmolded design is reliable and rugged to withstand harsh industrial environments
- Models available with PNP or NPN inputs

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	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	Color* 1	Color* 2	Color* 3	Input	Connection
S18L	**G**	**R**	**Y**	**P**	**Q**

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

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

Connection: **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	Color* 1	Color* 2	Color* 3	Input	Connection
S18DL	**G**	**R**	**Y**	**P**	**Q**

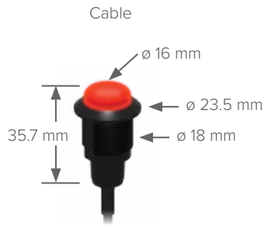
Color*: **G** = Green, **Y** = Yellow, **R** = Red, **B** = Blue, **W** = White, **O** = Orange, **X** = Not used

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

Connection: **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.

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	Color* 1	Color* 2	Color* 3	Input	Connection
S22L	**G**	**R**	**Y**	**P**	**Q**

- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **X** = Not used

- **P** = PNP
- **N** = NPN

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

QD models require mating cordset

Daylight Visible Models

Series	Color* 1	Color* 2	Color* 3	Input	Connection
S22DL	**G**	**R**	**Y**	**P**	**Q**

- **G** = Green
- **Y** = Yellow
- **R** = Red
- **B** = Blue
- **W** = White
- **O** = Orange
- **X** = Not used

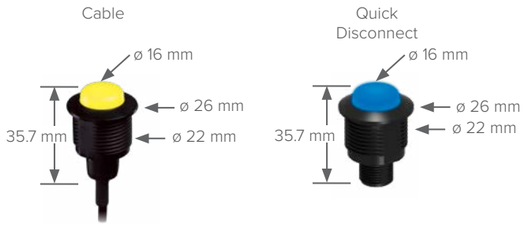
- **P** = PNP
- **N** = NPN

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

QD models require mating cordset

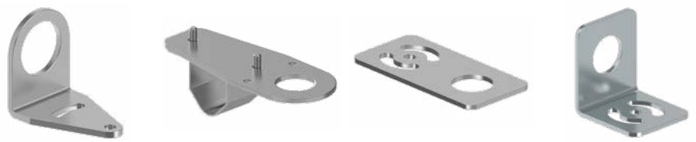
Laser Marking Available

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



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**

Pro Models

Flush Mount Programmable 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 72

Series	Material	Color*	Connection
S22L2	**S**	**RGB7**	**Q**

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

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

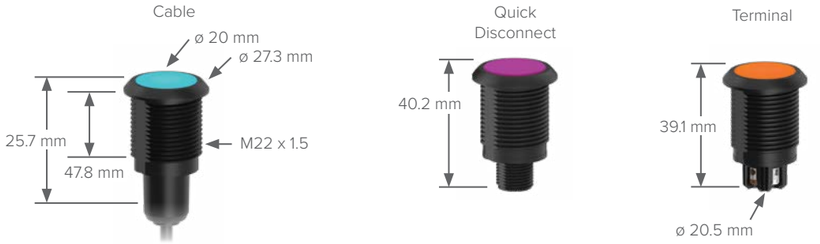
- **Blank** = 2 m integral cable
- **Q** = 5-pin M12 integral QD
- **QP** = 5-pin M12 pigtail QD
- **T** = Terminal screws

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



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

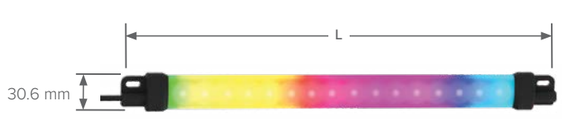
Note: Not all models are shown. Visit bannerengineering.com for other available models.

WLS15 Pro

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	Style	Cascadable	Color	Length (mm)	Window	Construction	Control	Connector
WLS15	**P**	**X**	**RGB**	**0360**	**D**	**S**		**QP**
	P = Pro	**X** = Non-cascadable	**RGB** = RGB multicolor	**0220** **0360** **0500** **0640** **0920** **1200**	**D** = Diffuse	**S** = Sealed (IP66, IP67)	**S** = PICK-IQ™ **K** = IO-Link **Blank** = Pro	**QP** = 150 mm M12 integral QD



Length (L)

220 mm	640 mm
360 mm	920 mm
500 mm	1200 mm

Supply Voltage	Pro: 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	

Brackets

LMBWLS15-150S

LMBWLS15

LMBWLS15MAG
Magnetic Mount

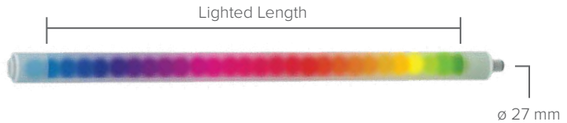
LMBWLS15TF
Tape

WLS27 Pro

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	Style	Cascadable	Color	Lighted Length (mm)	Window	Construction	Control	Connector
WLS27	**P**	**X**	**RGBW**	**285**	**D**	**S**	**K**	**Q**
	P = Pro	**X** = Non-cascadable	**RGBW** = RGBW multicolor	**145** **285** **430** **570** **850** **1130**	**D** = Diffuse plastic **H** = Heavy diffuse plastic	**S** = Sealed	**K** = IO-Link **Blank** = Pro	**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

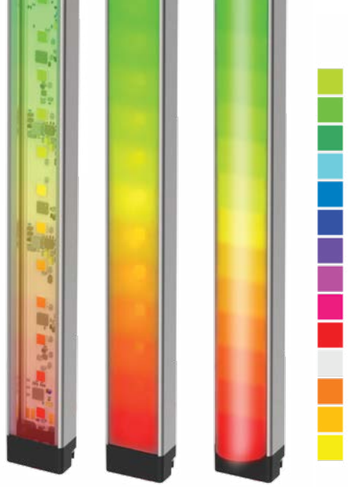
LMBWLS27H

LMBWLS27T

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

LMBWLS27SP
Clear Copolyester

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

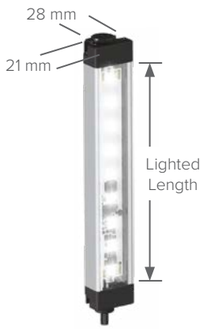


WLS28 Pro

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	Style	Cascadable	LED Color	Lighted Length (mm)	Window	Construction	Control	Connector
WLS28	**P**	**X**	**RGBW**	**285**		**X**	**K**	**Q**
	P = Pro	**X** = Non-cascadable		**145**	**Blank** = Clear plastic	**X** = IP50	**Blank** = Standard	**Q** = M12 integral QD
				285	**D** = Diffuse plastic		**K** = IO-Link	QD models require mating cordset
			RGBW = RGBW multicolor	**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

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

Core 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	

Brackets

SMB22A

SMB22FVK

SMB22RAVK

SMBAMS22P

SMBAMS22RA

LMB22LPC

Pro Models

Same Functionality as Core 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 Pro 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

Pro 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

Pro Models with IO-Link or PICK-IQ

Series: **K30**

Style: **P**
- **P** = Pro

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	

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

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

Core Models

Series	Color Sequence			Input	Connection
	1	2	3		
K50L	**G**	**R**	**Y**	**P**	**Q**

K50L = Dome
K50CL = Flat mount

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

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

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

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

Pro Models

Same Functionality as Core 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

Pro 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 muliticolor 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

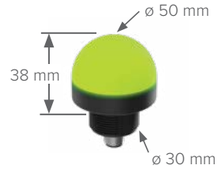
Pro Models with PICK-IQ

Series	Style	Activation Method	Control	Connection
K50	**P**	**L**	**S**	**Q**

P = Pro
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

K50L2



K50CL2

K50L2
Audible

K50L2
Adjustable Audible

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.

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

Core 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**

Pro Models

Same Functionality as Core 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

Pro Models

Series	Style	Housing	Color & Input	Connection
K50	**P**	**BL**	**RGB7**	**Q**
	P = Pro	**BL** = Beacon	**RGB7** = RGB multicolor (7 colors)	**Blank** = 2 m integral cable **Q** = M12 integral QD **QP** = M12 pigtail QD

QD models require mating cordset

Pro Models with IO-Link or PICK-IQ

Series	Style	Housing	Control	Connection
K50	**P**	**BL**	**S**	**Q2PS**
	P = Pro	**BL** = Beacon	**S** = Serial/PICK-IQ™ **K** = IO-Link	**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.

K70 Core

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**

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

Core 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**

Pro Models

Same Functionality as Core 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

Pro Models

Series	Style	Housing	Control	Connection
K90	**P**	**L**	**RGB7**	**Q**

P = Pro
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

Pro Models with IO-Link

Series	Style	Housing	Control	Connection
K90	**P**	**L**	**K**	**Q**

P = Pro
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	Pro: 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.

K100 Series

100 mm Basic 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	Style		Type	Voltage	Color	Audible Alarm	Connection
K100	**B**	–	**BL**		**G**	**A**	**Q**
	B = Basic		**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

Pro Models

Programmable 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

Pro Daylight Visible Single Color Models

Series	Style	Type	Color	Audible Alarm	Connection
K100	**P**	**BL**	**Y**	**A**	**Q**
	P = Pro	**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

Pro Daylight Visible Three Color Models

Series	Style	Type	Voltage	Color 1	Color 2	Color 3	Audible Alarm	Connection
K100	**P**	**BL**		**G**	**Y**	**R**	**A**	**Q**
	P = Pro	**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

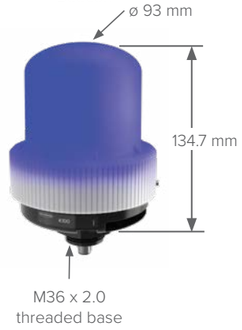
Pro Multicolor Models

Series	Style	Type	Voltage	Colors	Audible Alarm	Connection
K100	**P**	**L**		**RGB7**	**A**	**Q**
	P = Pro	**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

Pro Daylight Visible Beacon

Pro 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.

Touch Button and Pick-to-Light

Selection Guide

Page	pg. 72	pg. 75	pg. 73	pg. 80	pg. 76, 78	pg. 79	pg.82	pg. 84
Series Name	**S22 Pro Touch**	**K30 Touch Series**	**K30 Pro Optical Sensor**	**K50 Optical Series**	**K50 Touch Series**	**K50 Pro Touch Display**	**K70 Touch Series**	**PTL110**
Indicator Diameter (mm)	22	30	30	50	50	50	70	15
Mounting Hole Diameter (mm)	22	22	22	30	30	30	30	—
AC/DC	DC	DC	DC	DC	DC	DC	DC	DC
IP Rating	IP66, IP67, IP69K	IP67, IP69K	IP65	IP67, IP69K	IP65, IP67, IP69K	IP67, IP69K	IP65	IP66, IP67
Programmable	PRO	PRO, IO-Link®, PICK-IQ®	PRO	PRO, IO-Link®, PICK-IQ®	PRO, IO-Link®, PICK-IQ®	PRO, IO-Link®, PICK-IQ®	PRO	PICK-IQ®
Multicolor Options	✓	✓	✓	✓	✓	✓	✓	
Audible					✓		✓	

PRO

Programmable LED indicators offer multiple color choices in a single housing

S22 Pro Touch

Programmable 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**

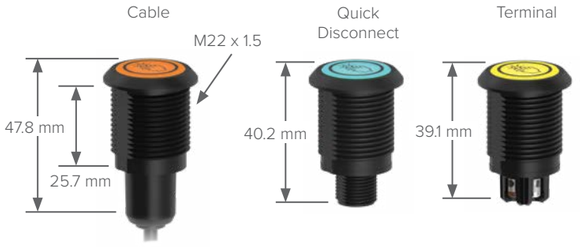
*7 colors = Green, yellow, red, blue, white, cyan, magenta or 3 colors = green, yellow, red
**Not available with RGB7 models

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		**H** = Illuminated buttons **C** = Pick-to-light† **E** = Pick-to-light† **D** = Pick-to-light†	**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 Pro Optical Sensor

30 mm Programmable 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

Pro Models

Series	Style	Activation Method	Output State	Output Function	Color/Control	Connector
K30	**P**	**AF100**	**A**	**M**	**GRY3**	**Q**
	P = Pro	**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 quick disconnect 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.

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

Core 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

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

Brackets

SMB22A

SMBAMS22P

SMBAMS22RA

Pro Models

Same Functionality as Core 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

Pro Touch Models

Series	Style	Activation Method	Output State	Output Function	Color/Control	Connection
K30	**P**	**T**	**A**	**M**	**GRY3**	**QP**
	P = Pro	**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

Pro Touch Models with IO-Link or PICK-IQ

Series	Style	Activation Method	Control	Connection
K30	**P**	**T**	**K**	**QP**
	P = Pro	**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	Pro: 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	

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

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

Core 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**

Pro Models

Same Functionality as Core 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

Pro Touch Models

Series: **K50**

Style: **P** = Pro

Activation Method: **T** = Touch; **TF** = Touch, FDA grade; **TV** = Touch, vibration feedback; **TFV** = Touch, FDA grade, vibration feedback

Housing: **C** = Compact*; **Blank** = Std dome

Output State: **A** = Normally open

Output Function: **M** = Momentary; **L** = Latching

Color/Control: **GRY3** = Programmable multicolor (3 Colors, 5-pin); **RGB14** = Programmable multicolor (14 colors, 8-pin)

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

Connection: **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

Pro Touch Models with IO-Link or PICK-IQ

Series: **K50**

Style: **P** = Pro

Activation Method: **T** = Touch; **TF** = Touch, FDA grade***; **TV** = Touch, vibration feedback***; **TFV** = Touch, FDA grade, vibration feedback***

Housing: **C** = Compact*; **Blank** = Standard dome

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

Connection: **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

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

QD models require mating cordset

Pro Push Button Models with IO-Link

Series: **K50**

Style: **P** = Pro

Activation Method: **PB** = Push button

Control: **K** = IO-Link

Connection: **Q** = 4-pin M12 integral QD

QD models require mating cordset

Supply Voltage	Pro: 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

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

K50 Pro Touch with Audible

50 mm Programmable 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

Pro Touch with Audible Models

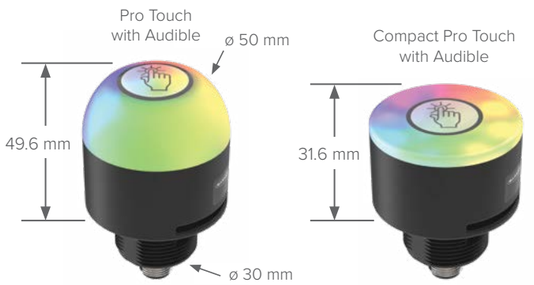
Series	Style	Activation Method	Housing	Output State	Output Function	Color/ Control	Audible	Connection
K50	**P**	**T**	**C**	**A**	**M**	**GRY3**	**A**	**QP**
	P = Pro	**T** = Touch	**C** = Compact **Blank** = Standard dome	**A** = Normally open	**M** = Momentary **L** = Latching	**GRY3** = Programmable 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

Pro Touch with Audible and IO-Link Models

Series	Style	Activation Method	Housing	Control	Audible	Connection
K50	**P**	**T**	**C**	**K**	**A**	**QP**
	P = Pro	**T** = Touch	**C** = Compact **Blank** = Standard dome	**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



Supply Voltage	Pro: 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

K50 Pro Touch with Display

50 mm Advanced Programmable 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	Style	Activation Method	Housing	Display	Control	Connection
K50	**P**	**T**	**C**	**D4**	**K**	**Q**
	P = Pro	**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	Pro: 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**

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

K50 Optical Series

50 mm Multicolor Touch Button Indicators

- 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

Core Optical 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 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	

*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**

Pro Models

Same Functionality as Core 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

Pro Optical Models

Series	Style	Activation Method	Output State	Output Function	Color/Control	Connection
K50	**P**	**FF50**	**A**	**M**	**GRY3**	**Q**

- **P** = Pro
- **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

Pro Optical Models with IO-Link or PICK-IQ

Series	Style	Activation Method	Control	Connection
K50	**P**	**FF50**	**K**	**Q**

- **P** = Pro
- **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	Standard: 12 to 30 V DC IO-Link: 18 to 30 V DC PICK-IQ: 10 to 30 V DC
Construction	Standard: Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP67, IP69K per DIN 40050-9*
Certifications	

*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.

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

Core 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

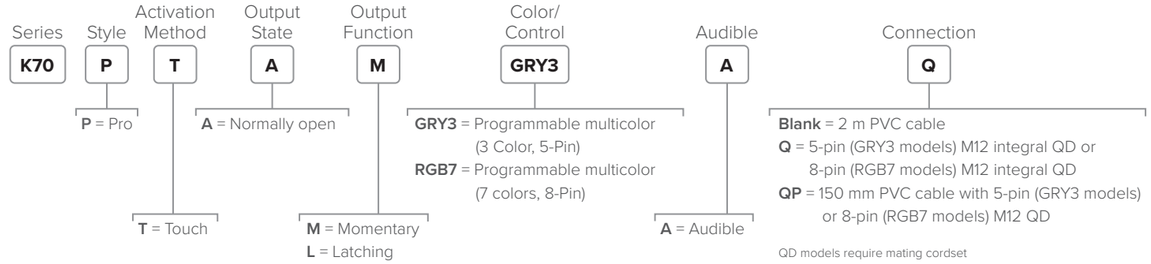
SMB30LP **SMB30A** **SMB30FVK** **SMB30RAVK** **SMBAMS30P** **SMB30MM** **SSA-MBK-EEC1**

K70 Pro Touch with Audible

70 mm Programmable 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

Pro 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**

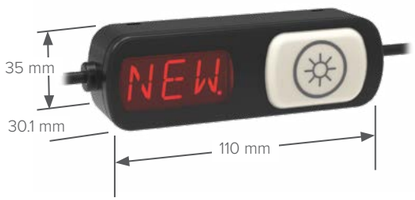
Note: Not all models are shown. Visit bannerengineering.com for other available models.

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	

Brackets

LMBPTL110C
For 28 mm
Tubular Racking

LMBPTL110F
For Slotted Extrusion
and Flat Rail Mounting

LMBPTL110A45
For Slotted Extrusion
and Flat Rail Mounting

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: 1 = Brown, 2 = White, 3 = Blue, 4 = Black; 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: 1 = Brown, 2 = White, 3 = Blue, 4 = Black, 5 = Gray; 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)

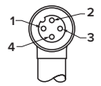
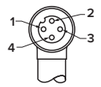
	Length	Straight	Right-Angle	Pinout
8-Pin Female QD to Flying Leads Open Shield with Drain Wire	2 m	MQDC2S-806	MQDC2S-806RA	Female: 1 = White, 2 = Brown, 3 = Green, 4 = Yellow, 5 = Gray, 6 = Pink, 7 = Blue, 8 = Red
	5 m	MQDC2S-815	MQDC2S-815RA	
	10 m	MQDC2S-830	MQDC2S-830RA	
	16 m	MQDC2S-850	MQDC2S-850RA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

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

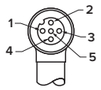
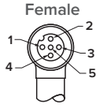
	Length	Straight	Right-Angle	Pinout
4-Pin Female QD to Flying Leads	2 m	MQDC-406-PUR	MQDC-406RA-PUR	Female: 1 = Brown, 2 = White, 3 = Blue, 4 = Black
	5 m	MQDC-415-PUR	MQDC-415RA-PUR	
	10 m	MQDC-430-PUR	MQDC-430RA-PUR	22 AWG; Cable ø – 4.1 mm

	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: 1 = Brown, 2 = White, 3 = Blue, 4 = Black; 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

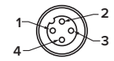
4-Pin M12 Lighted (Voltage: 10 to 30 V DC at 15 mA max)

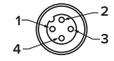
	Length	Straight	Right-Angle	Pinout	
4-Pin PNP	2 m	MQDC-406-GYP	MQDC-406-GYPRA	Female 	1 = Brown 2 = White 3 = Blue 4 = Black (ouput LED)
	5 m	MQDC-415-GYP	MQDC-415-GYPRA		
	9 m	MQDC-430-GYP	MQDC-430-GYPRA	22 AWG	Cable ø – 5.2 mm
4-Pin NPN	2 m	MQDC-406-GYN	MQDC-406-GYNRA	Female 	1 = Brown 2 = White 3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

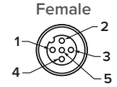
	Length	Straight	Right-Angle	Pinout	
5-Pin PNP	2 m	MQDC-506-GYP	MQDC-506-GYPRA	Female 	1 = Brown 2 = White 3 = Blue 4 = Black (ouput LED) 5 = Gray
	5 m	MQDC-515-GYP	MQDC-515-GYPRA		
	9 m	MQDC-530-GYP	MQDC-530-GYPRA	22 AWG	Cable ø – 5.6 mm
5-Pin NPN	2 m	MQDC-506-GYN	MQDC-506-GYNRA	Female 	1 = Brown 2 =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

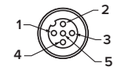
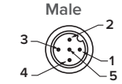
4-Pin M12 Washdown (Voltage: 250 V DC/AC, Current: 4 A)

	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

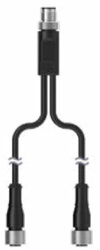
	Length	Straight/Straight	Pinout	
5-Pin Double-Ended	1.5 m	MQDEC-WDSS-505SS	Female 	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
	3 m	MQDEC-WDSS-510SS		
	4.57 m	MQDEC-WDSS-515SS	Male 	
			22 AWG	Cable ø – 4.8 mm

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; Male: 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	Trunk (male) 1–4; Branch 1 (female) 1–4; Branch 2 (female) 1–4
	S15YA4-M124-M124-0.2M			Trunk (male) 1–4; Branch 1 (female) 1–4; Branch 2 (female) 1–4
	S15YA24-M124-M124-0.2M			Trunk (male) 1–4; Branch 1 (female) 1–4; Branch 2 (female) 1–4

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; Male: 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**

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**

Pro 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**

Pro 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**

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		NPN on Pin 5	**SPS30PAR5NQ5**
				SPS30NAR5NQ5
	PNP	150 mm PVC cable with an M8 QD	NPN on Pin 2	**SPS30PAR2NQ3**

*For use with actuator products

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**

Audible Indication

K50 Pro Compact Audible

K50 Pro 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 Pro 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 Pro Hazardous Beacons

K100 Pro 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.

Heavy Duty and Washdown

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.

More Sensors, More Solutions.

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

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