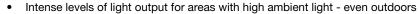
EZ-LIGHT® K50 Beacon



Datasheet

Daylight-Visible, General-Purpose Indicators for Indoor or Outdoor Use

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, see *www.bannerengineering.com*.



- Viewable around entire perimeter; some models also emit light from top
 - 1- or 2-, or 3-color models available
- Rugged, sealed thermoplastic housing rated for IEC IP67 and IP69K per DIN 40050-9
- Bright, even light
- 12 V dc to 30 V dc or 85 V ac to 130 V ac (75 V dc to 120 V dc) or 100 V ac to 250 V ac (90 V dc to 240 V dc) operation, depending on model
- 12 V dc operation useful for applications on mobile vehicles
- Consult factory for models with strobing capability

WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

Models

Model		LED Color(s) ¹	Innut	Quanta Malta an	Connection ²	
Perimeter View Only	Perimeter + Top View		Input	Supply Voltage	Connection=	
K50BLXGXPQ	K50BCLXGXPQ	Green	PNP	12 V to 30 V dc		
K50BLXRXPQ	K50BCLXRXPQ	Red			4-pin M12/Euro-style integral quick disconnect	
K50BLXYXPQ	K50BCLXYXPQ	Yellow				
K50BLXBXPQ	K50BCLXBXPQ	Blue				
K50BLXWXPQ	K50BCLXWXPQ	White				
K50BLGRXPQ	K50BCLGRXPQ	Green / Red				
K50BLGRYPQ	K50BCLGRYPQ	Green / Red / Yellow	PNP	12 V to 30 V dc	5-pin M12/Euro-style integral quick	
K50BLGRYNQ	K50BCLGRYNQ	Green / Red / Yellow	NPN	12 V to 30 V dc	disconnect ³	
K50BLGA120Q	K50BCLGA120Q	Green		85 V to 130 V ac		
K50BLRA120Q	K50BCLRA120Q	Red			3-pin A12/Micro-style integral quick	
K50BLYA120Q	K50BCLYA120Q	Yellow	AC			
K50BLBA120Q	K50BCLBA120Q	Blue	1			
K50BLWA120Q	K50BCLWA120Q	White				
K50BLGA230Q	K50BCLGA230Q	Green	AC	100 V to 250 V ac		
K50BLRA230Q	K50BCLRA230Q	Red				
K50BLYA230Q	K50BCLYA230Q	Yellow				
K50BLBA230Q	K50BCLBA230Q	Blue				

1 Available colors include: Green (G), Red (R), Yellow (Y), Blue (B) and White (W).

² Integral quick disconnect models are listed.

To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K50BLXGXP.

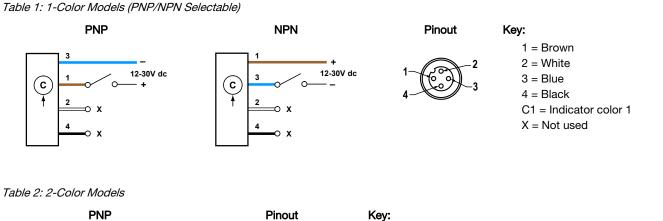
• Models with a quick disconnect require a mating cordset.

3 3-color models use a 4-pin mating cable, see wiring diagram.



[•] To order the 150 mm (6 in) PVC cable model with a M12/Euro-style quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, K50BLXGXPQP.

Wiring Diagrams - DC Models



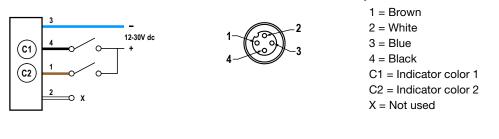
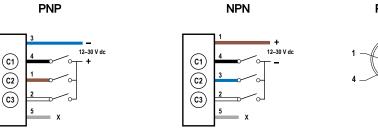
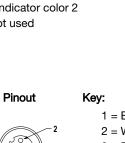


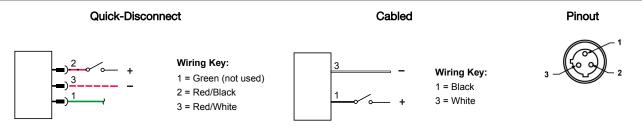
Table 3: 3-Color Models





1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray C1 = Indicator color 1 C2 = Indicator color 2 C3 = Indicator color 3 X = Not used

Wiring Diagrams - AC Models



Specifications

Supply Voltage and Current - 12 V dc to 30 V dc models

K50BL 1-color models: 140 mA max. at 12 V dc, 70 mA max. at 30 V dc K50BCL 1-color models: 160 mA max. at 12 V dc, 80 mA max. at 30 V dc K50BL 2-color models, per color: 75 mA max. at 12 V dc, 40 mA max. at 30 V dc

K50BCL 2-color models, per color: 95 mA max. at 12 V dc, 40 mA max. at 30 V dc

K50BL 3-color models, per color: 85m A at 12 V dc, 55 mA at 30 V dc K50BCL 3-color models, per color: 110 mA at 12 V dc, 65 mA at 30 V dc

Supply Voltage and Current - 120 V ac models

K50BL models: 85 V ac to 130 V ac or 75 V dc to 120 V dc at 16 mA max. 50/60 Hz

K50BCL models: 85 V ac to 130 V ac or 75 V dc to 120 V dc at 60 mA max. 50/60 Hz

Supply Voltage and Current - 230 V ac models

K50BL models: 100 V ac to 250 V ac or 90 V dc to 240 V dc at 20 mA max. 50 Hz to 60 Hz

K50BCL models: 100 V ac to 250 V ac or 90 V dc to 240 V dc at 25 mA max. 50 Hz to 60 Hz

Supply Protection Circuitry

12 V dc to 30 V dc models: Protected against reverse polarity and transient voltages 120 V ac and 230 V ac models: Protected against transient voltages

Indicators

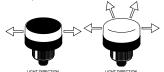
LED colors are independently selected, depending on model For 3-color models: only one color can be on at a time. The higher color number overrides the lower color number.

Environmental Rating

Rated IEC IP67 and IP69K per DIN 40050-9 NEMA/UL Type 4X, 13

Application Note

Light emits 360° from housing sides in K50BL models and housing sides and tops in K50BCL models.



Certifications





dc models only



Base and covers: polycarbonate

Connections

Integral 4-pin M12/Euro-style (dc models) QD, 3-pin Micro-style (ac models) QD, or 2 m (6.5 ft) integral cable, depending on model

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F) 90% at +50 °C maximum relative humidity (non-condensing)

Vibration and Mechanical Shock

All models meet Mil. Std. 202F requirements method 201A (vibration: 10 to 60 Hz max., double amplitude 0.06 in, maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave.

Indicator Power-up Response Time

DC 1, and 2- color models ON: 10 ms; OFF: 7 ms

DC 3-color models

ON: 250 ms; OFF: 10 ms

AC models

ON/OFF: 500 µs

Required Overcurrent Protection

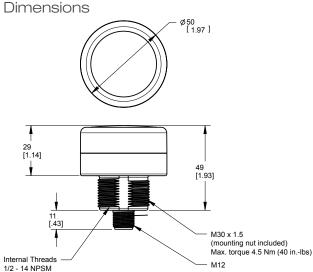


WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Uniting, Class 2 Power Supply. Supply wiring leads < 24 AWG shall not be spliced. For additional product support, go to *www.bannerengineering.com*.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5



Accessories

Cordsets

4-Pin Threaded M12/Euro-Style Cordsets—Single Ended					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-406	1.83 m (6 ft)		→ 44 Typ		
MQDC-415	4.57 m (15 ft)		Straight		
MQDC-430	9.14 m (30 ft)	Straight			
MQDC-450	15.2 m (50 ft)			1 = Brown 2 = White 3 = Blue 4 = Black	
MQDC-406RA	1.83 m (6 ft)		32 Typ. 1.26"		
MQDC-415RA	4.57 m (15 ft)				
MQDC-430RA	9.14 m (30 ft)				
MQDC-450RA	15.2 m (50 ft)	Right-Angle	M12 x 1 - ++ -+ ø 14.5 [0.57"] ++ -+		

3-Pin Micro-Style Cordsets					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-306	1.83 m (6 ft)	Straight	42 Typ. ————		
MQDC-315	4.57 m (15 ft)				
MQDC-330	9.14 m (30 ft)		1/2-20 UNF-28 J 014.5 J		
MQDC-306RA	1.83 m (6 ft)	Right-Angle	32 Typ	3 1 = Green 2 = Red/Black 3 = Red/White	
MQDC-315RA	4.57 m (15 ft)				
MQDC-330RA	9.14 m (30 ft)				

Mounting Brackets

All measurements are listed in millimeters, unless noted otherwise.

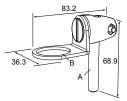
SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in)
 hardware
- Mounting hole for 30 mm sensor
- 12-ga. stainless steel

Hole center spacing: A to B=40 Hole size: A=ø 6.3, B= 27.1 x 6.3, C=ø 30.5

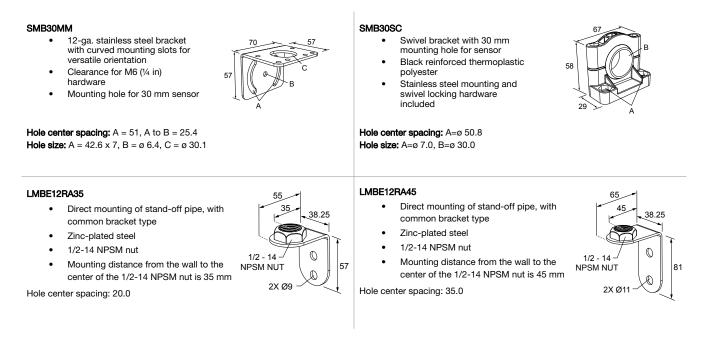
SMB30FA

- Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-ga. 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available



Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50 Hole size: B= ø 30.1

ø 14.5 -



Elevated Mount System

Model			Features	Components
SA-M30E12 - Black Acetal			 Streamlined black acetal stand-off pipe adapter/ cover Connects between 30 mm light base and ½ in. NPSM/DN15 pipe Mounting hardware included 	₩
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum		
SOP-E12-150SS 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	 Elevated-use stand-off pipe (½ in. NPSM/DN15) Polished 304 stainless steel, black anodized 	
SOP-E12-300SS 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	 aluminum, or clear anodized aluminum surface ½ in. NPT thread at both ends Compatible with most industrial environments 	
SOP-E12-900SS 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		T
SA-E12M30 - Black Acetal			 Streamlined black acetal mounting base adapter/ cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included 	

Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE. This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specification and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: www.bannerengineering.com.

For patent information, see www.bannerengineering.com/patents.

FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NIMB-3(B). Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Beacons category:

Click to view products by Banner manufacturer:

Other Similar products are found below :

K50APTWXDQ K50ABT2XGH K50APT2GXDQ K50ABTGRHQ K50APT2FGRYF2QP K50LGRYPPB1Q K50APTGRCQ K50APTGRYF2 K50ABT2GYHQ K50APTGRYC3Q K50APT2GREQP K50APT2GRYF2Q K100PBLGYRQ K30LGRYPPB2 K30APPBGREQP K30APT2FGRYF2QP K30LGRXPPB2Q K30LGRYPPB2Q K30APT2RGF2 K30APTXRF2 K30APTXWF2 K30PTALRGB7 K30PTAMGRY3QP K30PTALGRY3Q K30PTAMGRY3Q K30PTALRGB7Q K30PTAMRGB7Q K50APPBGRYF2Q8 K50BCLXRXPQ K50BCLS1XYXPQ K50BCLGRBP K50BCLXGXP K50BCLS1XRXPQ K50BLGRXPQ K50LGRYPPB2 K50LGXXPPB2Q K50LGRXPPB2Q K50LBXXPPB2Q K50LGYXPPB2Q K50PBLSQ K50PBLRGB7Q K50PFF100AMGRY3Q K50PTAMGRY3 K50PTAMGRY3AQP K50PTKAQ K50PTAMGRY3AQ K50PTAMRGB7AQ K50PTCAMGRY3AQ K50PTCAMGRY3Q-812166 K50PTCAMGRY3Q