

Features

Programmable Multicolor Indicator with Optional Audible Alarm for Indoor or Outdoor Use



- · Industrial beacon providing bright, configurable indication for OEMs and users that need visible status information
- Rugged construction provides years of uninterrupted operation
- · Unique water-shed beacon design helps protect the indicator
- Fourteen colors in one device
- Programmable using Banner's Pro Editor software and Pro Converter Cable
- 36 mm threaded polycarbonate base
- Rugged IP66 and IP69K per DIN 40050-9, UL Type 4X housing
- PNP or NPN operation depending on wiring
- Variety of connector options
- Rugged UV-stabilized polycarbonate base and window
- 12 V DC to 48 V DC operating voltage

Pro Editor

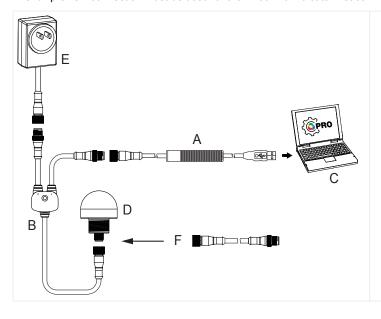


Use Banner's Pro Editor software and Pro Converter Cable to create custom configurations by selecting different colors, flash patterns, and animations.

For more information visit www.bannerengineering.com/proeditor.

Full Preview Connection (Required)

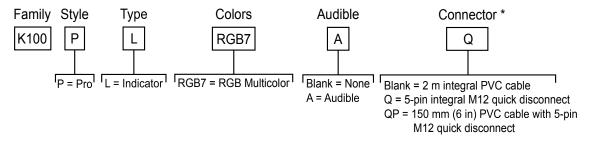
The full preview connection must be used for the K100 Pro Indicator Beacon.



- A = Pro Converter Cable (MQDC-506-USB)
- B = Splitter (CSB-M1251FM1251M)
- C = PC running Pro Editor software D = Any Banner Pro Series-enabled device (K50 shown)
- F = 8-Pin to 5-Pin Double-Ended Cordset (MQDC-801-5M-PRO), required for 8-Pin models

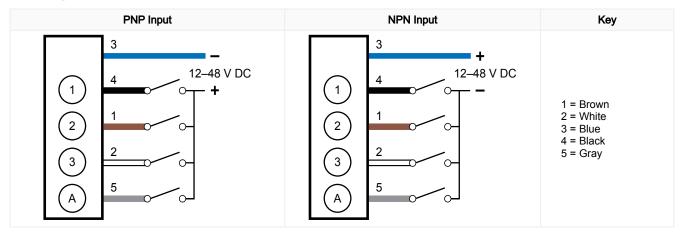
Models

Standard models shown. Contact factory for other options.



* Models with a quick disconnect require a mating cordset

Wiring



An "X" denotes an active input.

For example: When the black wire and the white wire are both active, the indicator will be Magenta Steady.

Default Configuration

Wiring				Operating Mode/Function		
Black	Brown	White	Gray	Non-Audible	Audible	
Χ				Red Steady	Red Steady	
	X			Green Steady	Green Steady	
		X		Blue Steady	Blue Steady	
Χ	X			Yellow Steady	Yellow Steady	
Х		Χ		Magenta Steady	Magenta Steady	
	X	X		Cyan Steady	Cyan Steady	
X	X	X		White Steady	White Steady	
			X	Off	Audible Steady, Frequency 2.5 KHz, Volume High	
Χ			X	Red Steady	Red Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
	X		Χ	Green Steady	Green Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
		X	X	Blue Steady	Blue Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
Х	X		X	Yellow Steady	Yellow Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
X		Х	х	Magenta Steady	Magenta Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
	X	X	X	Cyan Steady	Cyan Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
Χ	X	X	Χ	White Steady	White Steady, Audible Steady, Frequency 2.5 KHz, Volume High	

Specifications

Supply Voltage and Current

12 V DC to 48 V DC

Maximum current (mA):

Voltage	Light Only	Light & Audbile
12	395	535
18	265	350
24	200	260
30	160	210
36	140	180
42	125	160
48	110	145

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Leakage Current Immunity

400 µA

Indicator Response Time

On response: 325 ms (max) Off response: 20 ms (max)

Connections

Integral 5-pin M12 male quick-disconnect connector, 150 mm (6 in) PVC-jacketed cable with an M12 quick disconnect, or 2 m (6.5 ft) integral PVC-jacketed cable, depending on model Models with a quick disconnect require a mating cordset

Mounting

M36 by 2.0 threaded base, maximum torque 5.0 N·m (44 inch-lbf)

Interior 3/4-14 NPT Thread Mounting nut included

Adjacent Unit Mounting Separation Distance

Minimum: 0 in (mounted with unit flanges touching)

Audible Characteristics

Sound Intensity at 2.5 KHz, at 1 m (typical): Low volume setting: 93 dB Medium volume setting: 96 dB High volume setting: 101 dB

Construction

Base, Dome, and Nut: Polycarbonate

Operating Conditions

-40 °C to +60 °C (-40 °F to +140 °F)

90% at +50 °C maximum relative humidity (non-condensing) Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)

Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 1.0 mm amplitude, 5 minutes sweep, 30 minutes dwell)

Meets IEC 60068-2-27 requirements (Shock: 30G 11 ms duration, half sine wave)

Impact: IK08 (IEC 60068-2-75)

Environmental Rating

IP66, IP69K per DIN 40050-9, UL Type 4X

LED Lifetime

Lumen maintenance L₇₀

When operating within specifications, output decreases less than 30% after 42,000 hours

Pro Editor Configuration

Connection to Pro Editor software enables control of:

- Animation: Steady, Flash, Two Color Flash, Intensity Sweep, Two Color Sweep, Wave, Double Wave
- Color: Green, Red, Yellow, Blue, White, Cyan, Magenta, Amber, Rose, Lime Green, Orange, Sky Blue, Violet, Spring Green
- · Intensity: Off, Low, Medium, High, Custom
- Speed: Slow, Standard, Fast, Custom
- Pattern: Normal, Strobe, 3-Pulse, SOS, Random
- Direction: Clockwise (CW), Counter-Clockwise (CCW)
- · Audio Feedback: Off, On, Pattern, Advanced Audible
- Audible Tones: Pulse, Wobble, Strobe, Whoop, Staccato, Siren, Continuous 1, Continuous 2, Jingle, Melody 1, Melody 2, Melody 3
- · Audible Intensity: Low, Medium, High
- One pin configurable as either an input or an output

Pro Converter Cable required to interface between PC and indicator, see accessories

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Tempera-	Color Coordi- nates ⁽¹⁾		Lumen Output (Typical at 25
	ture (CCT)	x	у	°C)
Red	620 nm	0.6900	0.3081	36
Green	525 nm	0.1620	0.7112	73
Blue	468 nm	0.1400	0.0539	14
Yellow	575 nm	0.4780	0.4700	91
Magenta	-	0.3877	0.1817	47
Cyan	492 nm	0.1666	0.3406	83
White	6000K	0.3379	0.3380	112
Amber	590 nm	0.5566	0.4098	63
Rose	-	0.5234	0.2310	39
Lime Green	562 nm	0.3987	0.5306	99
Orange	600 nm	0.6135	0.3665	50
Sky Blue	485 nm	0.1483	0.2476	87
Violet	-	0.2148	0.0938	28
Spring Green	507 nm	0.1780	0.5375	77

Internal temperature compensation circuitry: Reduces the Lumen Output to decrease the unit's internal operating temperature. The amount of reduction is dependent on the ambient operating temperature, supply voltage, color, and/or audible functions being utilized.

⁽¹⁾ Refer to CIE 1931 chromaticity diagram or color chart, to show equivalent color with indicated color coordinates.

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 Limiting, 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 (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	1.0	30	0.5

Certifications



Banner Engineering BV Park Lane, Culliganlaan 2F bus 3 1831 Diegem, BELGIUM

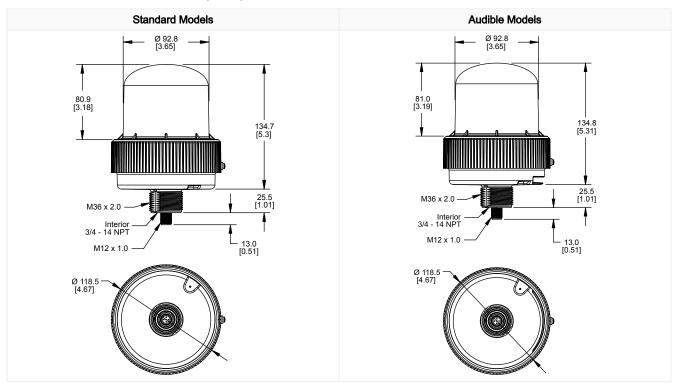


Turck Banner LTD Blenheim House Wickford, Essex SS11 8YT **GREAT BRITAIN**



Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise.



Accessories

Pro Editor Hardware

MQDC-506-USB

- Pro Converter Cable
 1.83 m (6 ft) length 5-pin M12 quick disconnect to Device and USB to PC
 Required for connection to Pro Editor



CSB-M1251FM1251M

- 5-pin parallel Y splitter (Male-Male-Female)
 For full Pro Editor preview capability
 Requires external power supply, sold separately



PSW-24-1

- 24 V DC, 1 A power supply
 2 m (6.5 ft) PVC cable with M12 quick disconnect
 Provides external power with splitter cable, sold separately



ACC-PRO-CABLE5

- Mating accessory for cabled and terminal models
 150 mm (6 inch) PVC cable with M12 quick disconnect
 Lever wire nuts included (qty 5)
 Required to connect cabled models and screw terminal models to Pro Converter Cable, sold separately



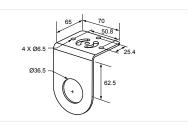
Cordsets

5-Pin Threaded M12 Cordsets—Single Ended						
Model Length		Style	Dimensions	Pinout (Female)		
MQDC1-501.5	0.5 m (1.5 ft)					
MQDC1-503	0.9 m (2.9 ft)		- 44 Typ.	1 2		
MQDC1-506	2 m (6.5 ft)					
MQDC1-515	5 m (16.4 ft)	Straight				
MQDC1-530	9 m (29.5 ft)		M12 x 1 —			
MQDC1-560	18 m (59 ft)		ø 14.5 [⊥]			
MQDC1-5100	31 m (101.7 ft)			3		
MQDC1-506RA	2 m (6.5 ft)		22 Tup	4 5 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray		
MQDC1-515RA	5 m (16.4 ft)		32 Typ. [1.26"]			
MQDC1-530RA	9 m (29.5 ft)					
MQDC1-560RA	19 m (62.3 ft)	Right-Angle	M12 x 1			

Brackets

LMB36RA

- Indicator light right-angle mounting36 mm mounting hole



Elevated Mount System

	Model			Components	
Black Anodized Alu- minum ¾ in. NPT	Black Anodized Aluminum ½ in. NPT	Clear Anodized Alu- minum ½ in. NPT	Features		
SOP-E34-150A 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	Elevated was alread off size		
SOP-E34-300A 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long	 Elevated-use stand-off pipe Black anodized aluminum or clear anodized aluminum surface 		
SOP-E34-600A 600 mm (24 in) long	SOP-E12-600A 600 mm (24 in) long	_	 Threaded at both ends Compatible with most industrial environments 		
SOP-E34-900A 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		π	
SA-M36E12			Adapter from M36 thread to 12-14 NPSM thread Streamlined black plastic mounting base adapter/cover Drilled hole		
SA-M36SOP			 M36 thread adapter with clearance for ¾ pipe mount Streamlined black plastic mounting base adapter/cover Drilled hole 		

Pipe Mounting Flange					
Model	Features	Construction			
SA-F12	 Elevated-use stand-off pipes (½ in, NPSM/DN15) M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	1/2-14 NPSM		

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