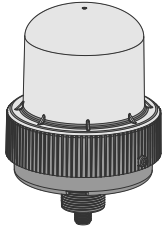


Features

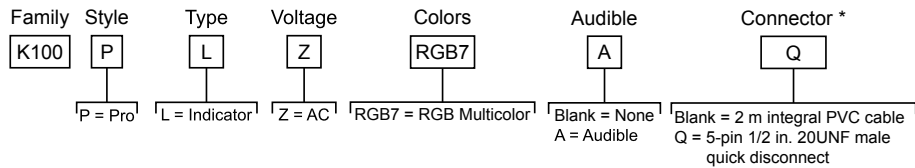
Multicolor Indicator with Optional Audible Alarm for Indoor or Outdoor Use



- Industrial beacon providing bright 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
- 36 mm threaded polycarbonate base
- Rugged IP66 and IP69K per DIN 40050-9, UL Type 4X housing
- Variety of connector options
- Rugged UV-stabilized polycarbonate base and window
- 100 V AC to 240 V AC operating voltage

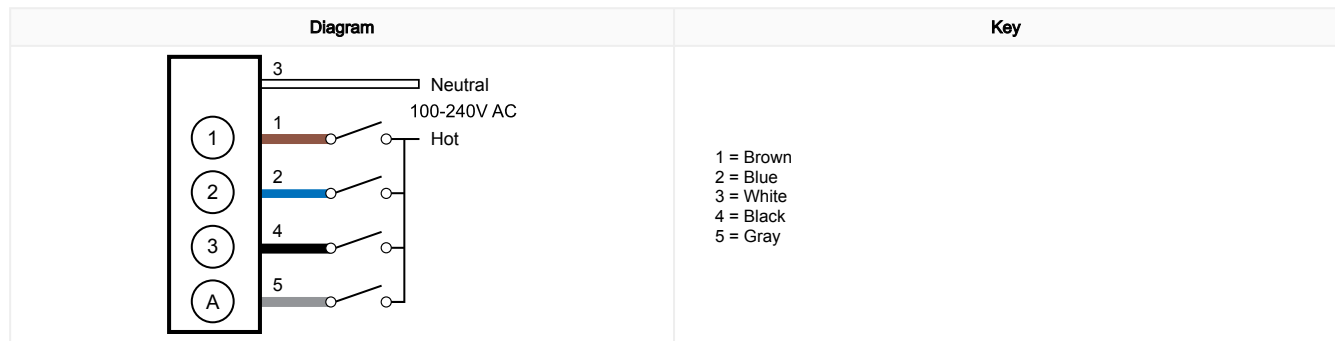
Models

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	
Brown	Blue	Black	Gray	Non-Audible	Audible
X				Red Steady	Red Steady
	X			Green Steady	Green Steady
		X		Blue Steady	Blue Steady
X	X			Yellow Steady	Yellow Steady
X		X		Magenta Steady	Magenta Steady
	X	X		Cyan Steady	Cyan Steady

Continued on page 2



Continued from page 1

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

Specifications

Supply Voltage and Current

100 V AC to 240 V AC, 50 Hz to 60 Hz

Maximum current (mA AC at 60 HZ):

Voltage	Light Only	Light & Audible
100	102	112
230	68	70

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Leakage Current Immunity

400 µA

Application Note: The use of relay output PLC is recommended since there is no leakage current. Solid state output PLCs often have leakage current above 1 mA and, therefore, turn the light on in the off state. To counteract the leakage current, a shunt resistor must be used. A resistor must be applied from the neutral wire of the device to the hot wire of each channel of the device.

Indicator Response Time

On Response: 350 ms (maximum)

Off Response: 20 ms (maximum)

Connections

Integral 5-pin 1/2 in. 20UNF male quick-disconnect connector 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)

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

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates ⁽¹⁾		Lumen Output (Typical at 25 °C)
		x	y	
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.

LED Lifetime

Lumen maintenance L70
 When operating within specifications, output decreases less than 30% after 42,000 hours

Audible Characteristics

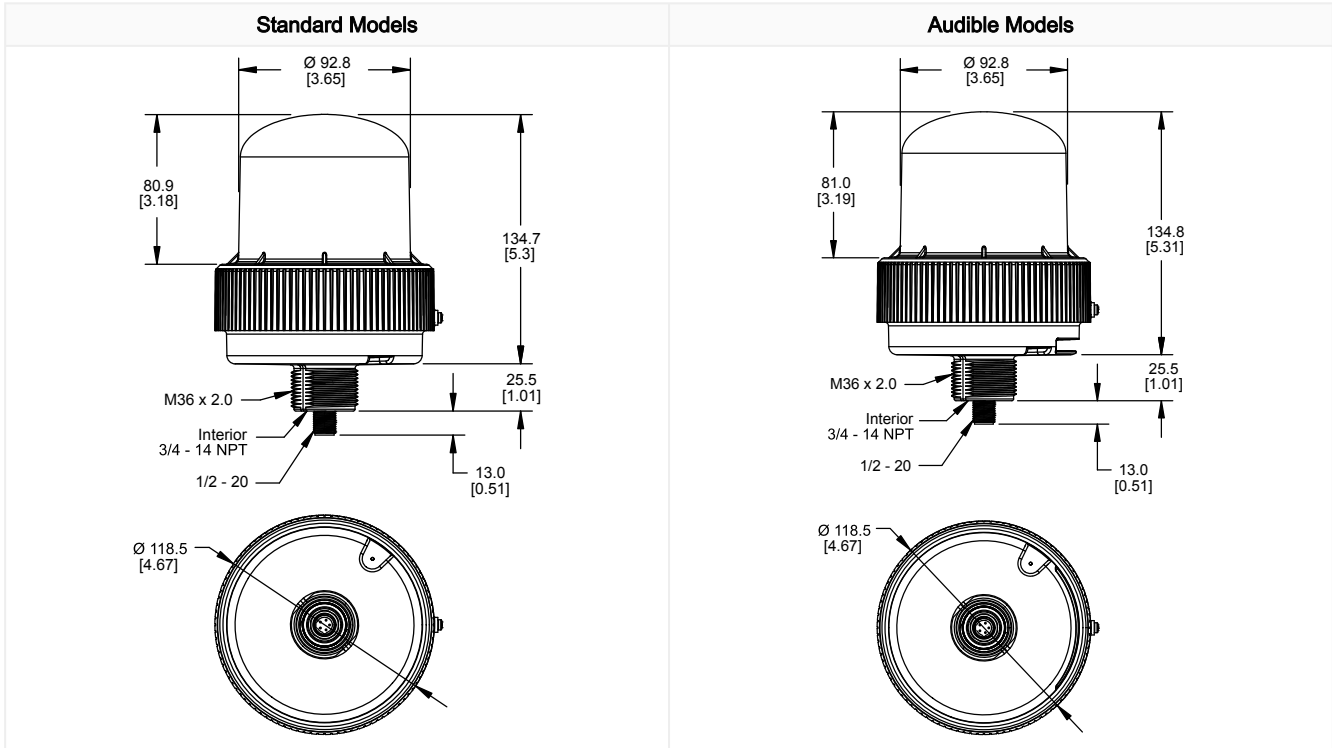
Sound Intensity at 2.5 KHz, at 1 m (typical):
 Low volume setting: 93 dB
 Medium volume setting: 96 dB
 High volume setting: 101 dB

Certifications



Dimensions

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



Accessories

Cordsets

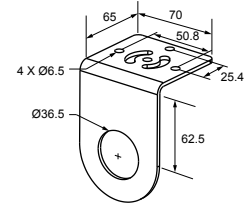
All measurements are listed in millimeters, unless noted otherwise.

5-Pin 1/2-in Dual Key Cordsets—Single Ended				
Model	Length	Style	Dimensions	Pinout
MQAC2-506	2 m (6.56 ft)	Straight		<p>1 = Brown 2 = Blue 3 = White 4 = Black 5 = Gray</p>
MQAC2-515	5 m (16.4 ft)			
MQAC2-530	9.14 m (30 ft)			

Brackets

LMB36RA

- Indicator light right-angle mounting
- 36 mm mounting hole
- Stainless steel



Elevated Mount System

Model			Features	Components
Black Anodized Aluminum ¼ in. NPT	Black Anodized Aluminum ½ in. NPT	Clear Anodized Aluminum ½ in. NPT		
SOP-E34-150A 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	<ul style="list-style-type: none"> • Elevated-use stand-off pipe • Black anodized aluminum or clear anodized aluminum surface • Threaded at both ends • Compatible with most industrial environments 	
SOP-E34-300A 300 mm (12 in) long	SOP-E12-300A 300 mm (12 in) long	SOP-E12-300AC 300 mm (12 in) long		
SOP-E34-600A 600 mm (24 in) long	SOP-E12-600A 600 mm (24 in) long	—		
SOP-E34-900A 900 mm (36 in) long	SOP-E12-900A 900 mm (36 in) long	SOP-E12-900AC 900 mm (36 in) long		
SA-M36E12			<ul style="list-style-type: none"> • Adapter from M36 thread to 12-14 NPSM thread • Streamlined black plastic mounting base adapter/cover • Drilled hole 	
SA-M36SOP			<ul style="list-style-type: none"> • M36 thread adapter with clearance for ¼ pipe mount • Streamlined black plastic mounting base adapter/cover • Drilled hole 	

Pipe Mounting Flange			
Model	Features	Construction	
SA-F12	<ul style="list-style-type: none"> • Elevated-use stand-off pipes (½ in. NPSM/DN15) • M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	

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 BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, 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 when the 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 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. Specifications and product information in English supersedes 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.