

## Features

Multicolor Indicator with Optional Audible Alarm for Indoor or Outdoor Use



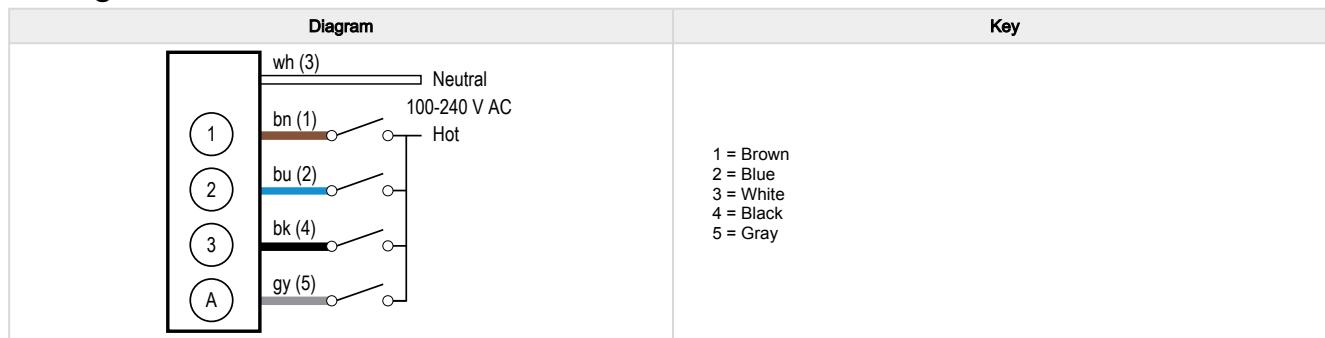
- Industrial beacon providing bright indication for OEMs and users that need visible status information
- Rugged construction provides years of uninterrupted operation
- Unique water-shed beacon design helps protect the indicator
- Fourteen colors in one device
- 36 mm threaded polycarbonate base
- Rugged IP66 and IP69K per ISO 20653, 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.

Family	Style	Type	Voltage	Colors	Audible	Connector <sup>(1)</sup>
K100	P	L	Z	RGB7	A	Q
	P = Pro	L = Indicator	Z = AC	RGB7 = RGB Multicolor	Blank = None A = Audible	Blank = 2 m (6.5 ft) integral PVC-jacketed cable Q = Integral 5-pin 1/2 in. 20UNF male quick-disconnect connector

## 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
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

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<sup>(1)</sup> Models with a quick-disconnect connector require a mating cordset.

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Wiring				Operating Mode/Function	
Brown	Blue	Black	Gray	Non-Audible	Audible
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  $\mu$ A

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 ISO 20653, UL Type 4X

### Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates <sup>(2)</sup>		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

### LED Lifetime

Lumen maintenance  $L_{70}$ 

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



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



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

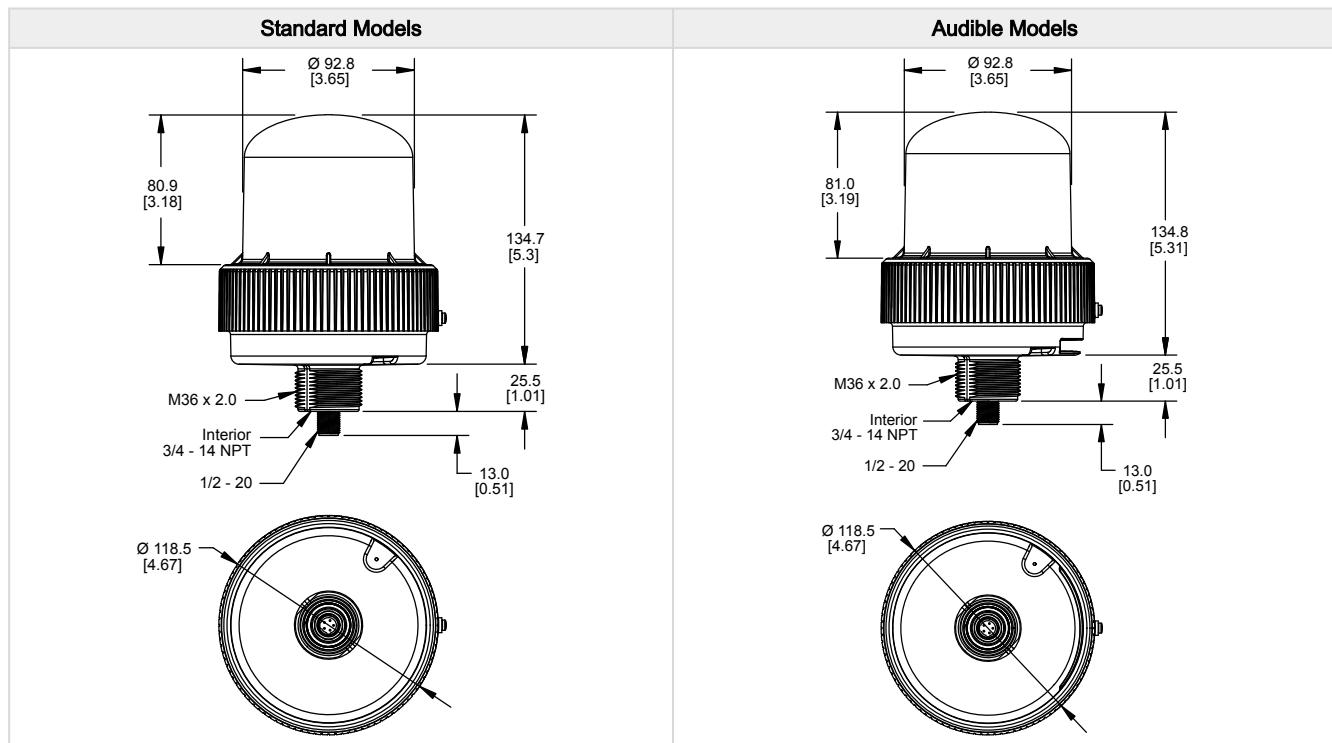


Internal temperature compensation circuitry: Reduces the Lumen Output to decrease the unit's internal operating temperature. The amount of reduction is dependent on the ambient operating temperature, supply voltage, color, and/or audible functions being utilized.

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

## Dimensions

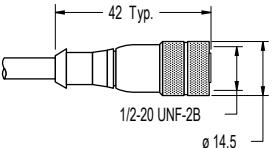
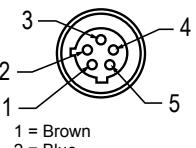
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



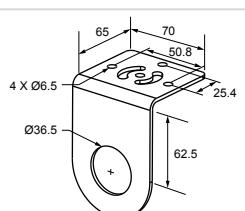
## Accessories

### Cordsets

All measurements are listed in millimeters, unless noted otherwise. The measurements provided are subject to change.

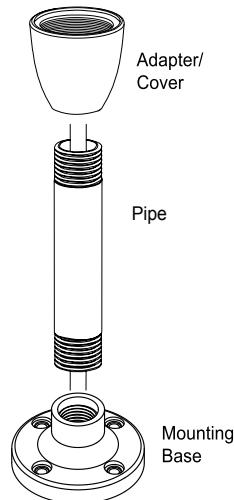
5-Pin Single-Ended 1/2-in Dual Key Female Cordsets				
Model	Length	Style	Dimensions	Pinout (Female)
MQAC2-506	2 m (6.56 ft)	Straight		 1 = Brown 2 = Blue 3 = White 4 = Black 5 = Gray
MQAC2-515	5 m (16.4 ft)			
MQAC2-530	9.14 m (30 ft)			

### Brackets

<b>LMB36RA</b> <ul style="list-style-type: none"> <li>Indicator light right-angle mounting</li> <li>36 mm mounting hole</li> <li>Stainless steel</li> </ul>	
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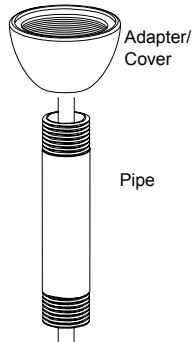
## Elevated Mount System

### Elevated Mount System (1/2" Pipes)



Adapter/Cover Model	Description	
<b>SA-M36E12</b>	<ul style="list-style-type: none"> <li>Adapter from M36 thread to 1/2-14 NPSM thread</li> <li>Streamlined black plastic mounting base adapter/cover</li> <li>Drilled hole</li> </ul>	
<b>Black Anodized Aluminum, 1/2 in. NPT Pipe Models</b>	<b>Clear Anodized Aluminum, 1/2 in. NPT Pipe Models</b>	<b>Description</b> <ul style="list-style-type: none"> <li>Elevated-use stand-off pipe</li> <li>Threaded at both ends</li> <li>Compatible with most industrial environments</li> </ul>
<b>SOP-E12-150A</b> , 150 mm (6 in) long	<b>SOP-E12-150AC</b> , 150 mm (6 in) long	
<b>SOP-E12-300A</b> , 300 mm (12 in) long	<b>SOP-E12-300AC</b> , 300 mm (12 in) long	
<b>SOP-E12-600A</b> , 600 mm (24 in) long	-	
<b>SOP-E12-900A</b> , 900 mm (36 in) long	<b>SOP-E12-900AC</b> , 900 mm (36 in) long	
Mounting Base Model	Description	
<b>SA-F12</b>	<ul style="list-style-type: none"> <li>Elevated-use stand-off pipes (1/2 in, NPSM/DN15)</li> <li>M5 mounting hardware and nitrile gasket included</li> <li>Die-cast zinc base with black paint</li> </ul>	

### Elevated Mount System (3/4" Pipes)



Adapter/Cover Model	Description	
<b>SA-M36SOP</b>	<ul style="list-style-type: none"> <li>M36 thread adapter with clearance for 3/4" pipe mount</li> <li>Streamlined black plastic mounting base adapter/cover</li> <li>Drilled hole</li> </ul>	
<b>Black Anodized Aluminum, 3/4 in. NPT Pipe Models</b>	<b>Description</b> <ul style="list-style-type: none"> <li>Elevated-use stand-off pipe</li> <li>Threaded at both ends</li> <li>Compatible with most industrial environments</li> </ul>	
<b>SOP-E34-150A</b> , 150 mm (6 in) long		
<b>SOP-E34-300A</b> , 300 mm (12 in) long		
<b>SOP-E34-600A</b> , 600 mm (24 in) long		
<b>SOP-E34-900A</b> , 900 mm (36 in) long		

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