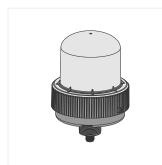


Features

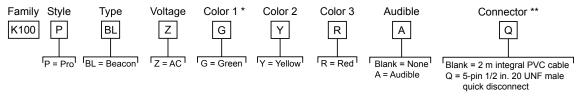
High Daylight Visibility, Multicolor Indicator with Optional Audible Alarm for Indoor or Outdoor Use



- · Highly visible indicator provides bright, even light in direct sunlight
- · Three 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

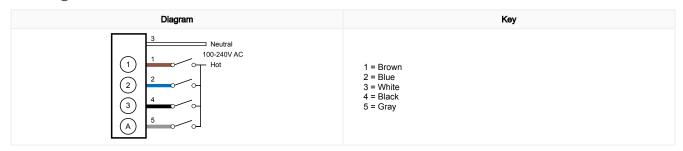
Models

Standard models shown. Contact factory for other options.



^{*} Other available color option: Blue

Wiring



An "X" denotes an active input.

For example: When Input 1 and Input 3 are both active, the indicator will be Color 1 Flashing at 1 Hz.

Default Configuration

Wiring				Operating Mode/Function		
Brown (Input 1)	Blue (Input 2)	Black (Input 3)	Gray (Input 4)	Non-Audible	Audible	
Χ				Color 1 Steady	Color 1 Steady	
	х			Color 2 Steady	Color 2 Steady	
		X		Color 3 Steady	Color 3 Steady	
Х		Χ		Color 1 Flashing at 1 Hz	Color 1 Flashing at 1 Hz	
Χ	Х			Color 2 Flashing at 1 Hz	Color 2 Flashing at 1 Hz	
	Х	Χ		Color 3 Flashing at 1 Hz	Color 3 Flashing at 1 Hz	
Х	Х	X		Color 3, 3-pulse Strobe	Color 3, 3-pulse Strobe	

Continued on page 2



^{**} Models with a quick disconnect require a mating cordset

Continued from page 1

Wiring				Operating Mode/Function		
Brown (Input 1)	Blue (Input 2)	Black (Input 3)	Gray (Input 4)	Non-Audible	Audible	
			X	Off	Audible Steady, Frequency 2.5 KHz, Volume High	
X			X	Color 1 Steady, Audible Steady, Frequency 2.5 KHz, Volume High		
	X		X	Color 2 Steady	Color 2 Steady, Audible Steady, Frequency 2.5 KHz, Volume High	
		X	X	Color 3 Steady Color 3 Steady, Audible Steady, Frequency 2.5 KHz, Volume High		
X		X	X	Color 1 Flashing at 1 Hz	Color 1 Flashing at 1 Hz, Audible Steady, Frequency 2.5 KHz, Volume High	
X	X		X	Color 2 Flashing at 1 Hz Color 2 Flashing at 1 Hz, Audible Steady, Frequency 2.5 KHz, Volume High		
	X	X	X	Color 3 Flashing at 1 Hz	Color 3 Flashing at 1 Hz, Audible Steady, Frequency 2.5 KHz, Volume High	
X	X	X	X	Color 3, 3-pulse Strobe	Color 3, 3-pulse Strobe, 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)						
Supply Voltage		sh, or Strobe Func- on ⁽¹⁾	Rotate Function				
(VAC)	Light Only	Light & Audible	Light Only	Light & Audi- ble			
100	140	154	96	100			
230	78	85	62	68			

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Leakage Current Immunity

400 µA

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)

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

(1) Flash or Strobe Mode: Peak current, operating at 50% duty cycle or less.

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: IK10 (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

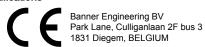
Default Indicator Characteristics

Oalan	Dominant Wavelength	Color Coor	dinates ⁽²⁾	Lumen Output
Color	(nm) or Color Temperature (CCT)	x	у	(Typical at 25 °C)
Green	528 nm	0.1603	0.6973	360
Yellow	589 nm	0.5557	0.4276	525
Red	625 nm	0.6999	0.2982	155
Blue	475 nm	0.1167	0.1121	165

Internal temperature compensation circuitry: Reduces the Lumen Output to decrease the unit 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.

Certifications



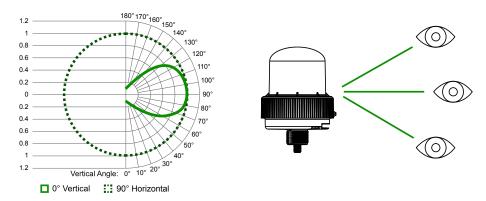


Turck Banner LTD Blenheim House Blenheim Court Wickford, Essex SS11 8YT GREAT BRITAIN



Photometric Data

Multiply the values shown in the chart by the maximum candela values in the Max. Candela table: Polar Candela Distribution



Base Candela

Green	46
Yellow	67
Red	20
Blue	21

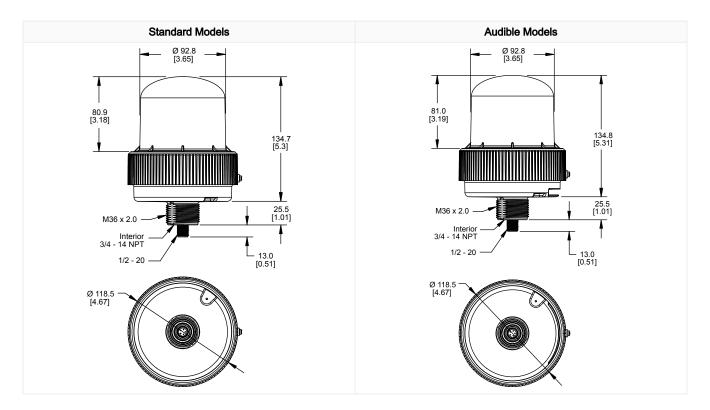
Candela Viewing Angle Example - Red

Angle	Factor	Base ⁽¹⁾	Candela
120 (top view)	0.7	20	14
90 (side view)	1	20	20
60 (bottom view)	0.7	20	14

Dimensions

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

⁽¹⁾ Red shown. See Base Candela table.



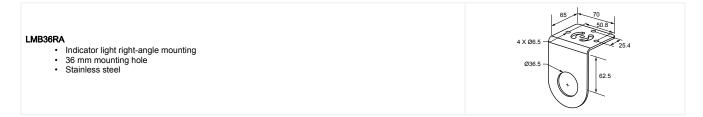
Accessories

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)			â (C)		
MQAC2-515	5 m (16.4 ft)		42 Typ. ———	3-16-0-4		
MQAC2-530	9.14 m (30 ft)	Straight	1/2-20 UNF-2B ø 14.5 –	2 5 1 = Brown 2 = Blue 3 = White 4 = Black 5 = Gray		

Brackets



Elevated Mount System

	Model				
Black Anodized Alu- minum ¾ in. NPT	Black Anodized Aluminum 1/2 in. NPT	Clear Anodized Alu- minum ½ in. NPT	Features	Components	
SOP-E34-150A 150 mm (6 in) long	SOP-E12-150A 150 mm (6 in) long	SOP-E12-150AC 150 mm (6 in) long	Flourished upon stand off sing		
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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