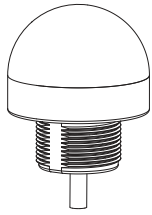


# 50 mm Programmable multicolor indicator

## Datasheet

50 mm Programmable Multicolor RGB Indicator with Audible Models and an Optional Flashing Input Control



- Bright, uniform indicator light
- Seven default colors in one device (Green, Red, Yellow, Blue, White, Cyan, Magenta)
- Programmable using Editor software and Pro Converter Cable
- 30 mm threaded polycarbonate base
- Translucent polycarbonate dome
- Rugged IEC IP66, IEC IP67, IEC IP69K and UL Type 4X, 13 design
- Bimodal inputs (PNP/NPN), depending on source wiring
- Models with integrated audible alarm available
- Variety of connector options
- Models constructed from FDA-grade materials available

## Wiring diagrams

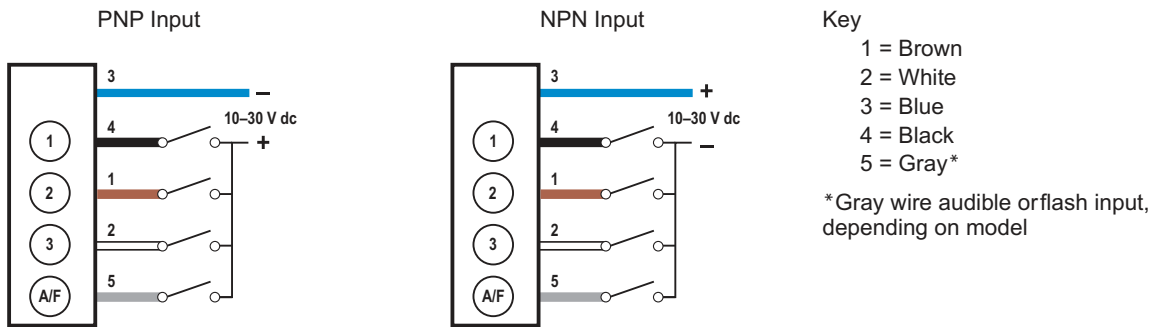


Table 1: Default Color Definition

	Red	Yellow	Green	Cyan	Blue	Magenta	White
Input 1	X	X				X	X
Input 2		X	X	X			X
Input 3				X	X	X	X

An "X" denotes an active input, for example when Input 1 and Input 3 are active, the indicator will show Magenta.

## Technical specifications

### Supply Voltage and Current

- 10 V dc to 30 V dc
- 220 mA at 10 V dc
- 190 mA at 12 V dc
- 115 mA at 24 V dc
- 100 mA at 30 V dc

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Leakage Current Immunity

400 µA

### Input Response Time

250 milliseconds maximum

### Flash

Default 1.5 Hz flash rate using flash input wire (not available on audible models)

### Audible Alarm

All models have a steady tone  
 A1 Model: 75 dB at 1 meter (typical), 3 kHz ± 500 Hz  
 AL1 Model: 95 dB at 1 meter (typical), 2.7 kHz ± 500 Hz  
 ALS Model: 94 dB at 1 meter (typical), 2.9 kHz ± 250 Hz

### Connections

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

### Pro Editor Configuration

Connection to Pro Editor software enables control of:

- Animation: Steady, Flash, Two Color Flash, 50/50, 50/50 Rotate, Chase, Intensity Sweep, Demo
- Color: Green, Red, Yellow, Blue, White, Cyan, Magenta, Amber, Rose, Lime Green, Orange, Sky Blue, Violet, Spring Green
- Intensity: Low, Medium, High
- Speed: Slow, Standard, Fast

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

### Default Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Color Coordinates <sup>1</sup>		Lumen Output (Typical at 25 °C)
		x	y	
Green	530 nm	0.170	0.711	21.4
Red	625 nm	0.688	0.310	6.3
Yellow	–	0.457	0.485	17.2
Blue	470 nm	0.133	0.072	4.7
White	5950 K	0.323	0.336	21.3
Cyan	–	0.154	0.321	25.1
Magenta	–	0.365	0.176	8.5

**Mounting**

M30 by 1.5 threaded base, maximum torque 4.5 N·m (40 inch-lbf)  
Mounting nut included

**Construction**

Standard Model Base, Dome, and Nut: Polycarbonate  
FDA Model Base, Dome, and Nut: FDA-grade polycarbonate

**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)

**Operating Conditions**

-40 °C to +50 °C (-40 °F to +122 °F)  
90% at +50 °C maximum relative humidity (non-condensing)  
Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)

**Environmental Rating**

Standard Models:  
Non-Audible Models: IEC IP66, IEC IP67, IEC IP69K  
A1 and AL1 Models: IEC IP50  
ALS Models: IEC IP66, IEC IP67, IEC IP69K  
Meets UL Type 4X, 13 when used in a suitable enclosure  
Cabled models also meet IEC IP69 if the cable and cable entrance are protected from high-pressure spray  
FDA Models: IEC IP66, IEC IP67, IEC IP69K

**Certifications**



**Required Overcurrent Protection**



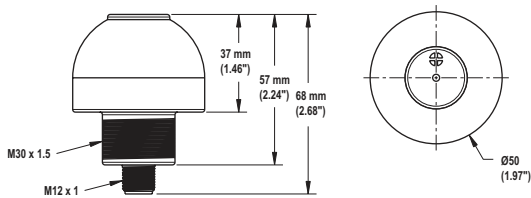
**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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.

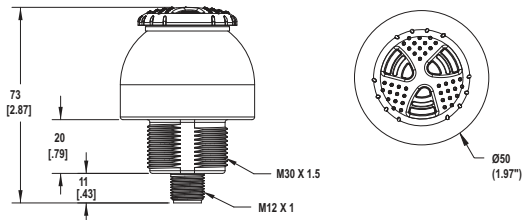
Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

**Dimensions**

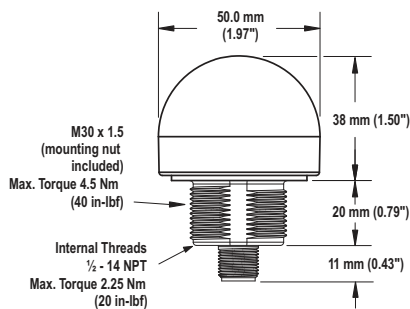
A1 and AL1 Audible Models



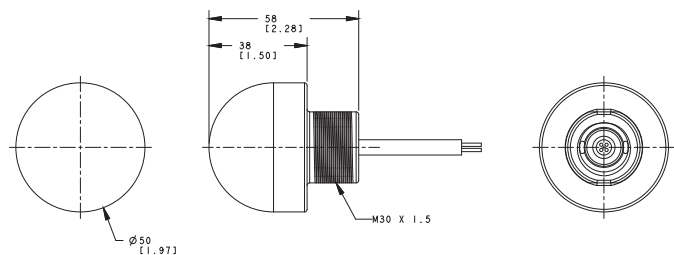
ALS Audible Models



Non-Audible Models



Cabled Models



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