

# INDIGO-CLEAN™ M4SEDIC SERIES

## Patented Continuous Environmental Disinfection System

### Dual Mode White and Indigo Disinfection LED

#### PRODUCT FEATURES:

- » Two operational modes: White Disinfection Mode & Indigo Disinfection Mode
- » High performance LED arrays provide uniform lens appearance
- » Diffused high-efficiency lens for reduced glare
- » Symmetric optical distribution
- » Universal housing accommodates either flange (drywall) or grid ceiling applications
- » One-piece sealed housing; smooth exterior doorframe and lens for infection control and simplified cleaning protocols
- » Conducted emissions controlled as per MIL-STD-461G



PROJECT INFORMATION	
Job Name	_____
Fixture Type	_____
Catalog Number	_____
Approved by	_____

#### SPECIFICATIONS

**HOUSING:** 20-gauge CRS. Hole-free, one-piece, seam-welded construction. Integral aluminum heatsink for thermal dissipation. 18-gauge housing flange with mitered and welded corners. Gloss white TGIC polyester powder-coat finish with 5-stage pre-treatment. Antimicrobial finish on all exposed painted surfaces of installed luminaire.

**DOORFRAME:** 18-gauge CRS. One-piece inset-style construction with welded corners. Gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Doorframe secured to housing with stainless steel aircraft cables and captive, flush-mounted Phillips-head fasteners. Antimicrobial finish standard on all exposed painted surfaces of the installed luminaire. One-piece, closed-cell silicone gasket seals doorframe to housing.

**OPTICS:** Symmetric optic includes diffused, impact-resistant acrylic lens.

**ELECTRICAL:** Serviceable mid-power white LED array and high-power 405 nm indigo LED array. Available 3700K and 4300K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI standard with optional minimum 90 CRI available. 120/277VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current drivers (<20% THD, >0.88 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range with dim-to-dark capabilities in White Disinfection Mode. 1mA maximum source current. Two operational modes: White Disinfection Mode is a white LED array for ambient lighting plus simultaneous low-power 405nm indigo array for low-level continuous environmental disinfection. Indigo Disinfection Mode is a high power 405nm Indigo LED array for continuous environmental disinfection. Operational mode determined via internal low-voltage device based upon input provided by external IC100 room control system. EMC meets or exceeds MIL STD 461G conducted requirements.

**INSTALLATION:** Non-IC recessed ceiling mounting into grid and flange application types. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into flange (drywall) or grid ceiling applications.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please contact Indigo-Clean@Kenall.com.

**PATENT:** Indigo-Clean products and technology covered by U.S. Patent No. US 9,039,966 and US 8,398,264. Product may also be covered by patents found at www.kenall.com/patents. Other patents pending.

**WARRANTY:** Limited five (5) year Kenall LED warranty.

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for IC and Wet Location installations. ETL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Conducted emissions compliant with MIL-STD-461G limits. CCEA Approved. EPA Est. No. 99283-WI-1.



#### ORDERING INFORMATION (Ex: M4SEDIC-24-150I/100L-43K8-DCC-277-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Input Voltage	Doorframe	Housing	Optics	Options
<b>M4SEDIC</b>				<b>DCC</b>				<b>SYM</b>	
<b>Size</b>				<b>Driver Type</b>				<b>Optics</b>	
<b>14</b>	1'x4' Nominal			<b>DCC</b>	0-10V Dimming			<b>SYM</b>	Symmetric, Diffused DR Acrylic
<b>22</b>	2'x2' Nominal			<b>Input Voltage</b>				<b>Options</b>	
<b>24</b>	2'x4' Nominal			<b>120</b>	120VAC, 50/60Hz			<b>LLEL</b>	8.4W Integral Emergency Battery Pack
<b>Lamp Power</b>				<b>277</b>	277VAC, 50/60Hz			<b>FS</b>	Fuse & Holder
<b>1'x4'</b>				<b>Doorframe Options</b>				<b>RM*</b>	Continuous Row Mounting
<b>75I/50L</b>	75 Watt Indigo/50 Watt White Disinfection LED			<b>2F</b>	18-Ga CRS Painted Antimicrobial (STD)			* Only available when installing in drywall ceilings (flange mount)	
<b>2'x2'</b>				<b>AF</b>	Anodized Aluminum				
<b>75I/50L</b>	75 Watt Indigo/50 Watt White Disinfection LED			<b>PAF</b>	Painted Antimicrobial Fabricated Aluminum				
<b>2'x4'</b>				<b>5F</b>	20-Ga Type 304 SS Brushed				
<b>150I/100L</b>	150 Watt Indigo/100 Watt White Disinfection LED			<b>Housing Options</b>					
<b>Lamp Color</b>				<b>2H</b>	20-Ga CRS; Painted Antimicrobial (STD)				
<b>37K8</b>	3700K, 80 CRI			<b>5H</b>	20-Ga Type 304 SS				
<b>37K9</b>	3700K, 90 CRI			<b>PAH</b>	.050" Painted Antimicrobial Aluminum				
<b>43K8</b>	4300K, 80 CRI								
<b>43K9</b>	4300K, 90 CRI								



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# INDIGO-CLEAN™ M4SEDIC Series

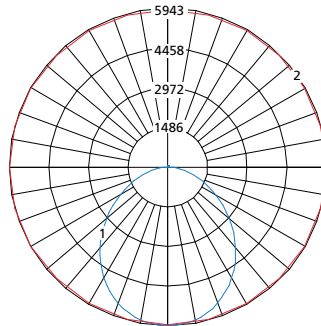
## Patented Continuous Environmental Disinfection System

### Dual Mode White and Indigo Disinfection LED

Size	Mode	Lamp Code	Delivered Lumens (lm)	Input Power (W)	Color Rendering		TM-30 Color Quality		Est. L70 LED Life (Hrs)
					R <sub>a</sub>	R <sub>g</sub>	R <sub>f</sub>	R <sub>g</sub>	
1'x4'	White Disinfection Mode	75I/50L-37K8	6,787	68	85	15	80	100	125,000
		75I/50L-37K9	5,576	68	96	59	92	100	
		75I/50L-43K8	6,767	68	84	11	80	99	
		75I/50L-43K9	5,759	68	93	53	90	98	
	Indigo Disinfection Mode	All	-	75	-	-	-	-	50,000
2'x2'	White Disinfection Mode	75I/50L-37K8	7,093	69	85	15	80	100	125,000
		75I/50L-37K9	5,827	69	96	59	92	100	
		75I/50L-43K8	7,073	69	84	11	80	99	
		75I/50L-43K9	6,019	69	93	53	90	98	
	Indigo Disinfection Mode	All	-	75	-	-	-	-	50,000
2'x4'	White Disinfection Mode	150I/100L-37K8	14,712	138	85	15	80	100	125,000
		150I/100L-37K9	11,434	138	96	59	92	100	
		150I/100L-43K8	14,669	138	84	11	80	99	
		150I/100L-43K9	12,483	138	93	53	90	98	
	Indigo Disinfection Mode	All	-	149	-	-	-	-	50,000

Information subject to change without notice. TM-30 Color Vector Graphic available upon request. Visit [www.kenall.com](http://www.kenall.com) for .ies files and additional information.

Model: M4SEDIC-24-150I/100L-43K8-DCC-120-2F-2H-SYM

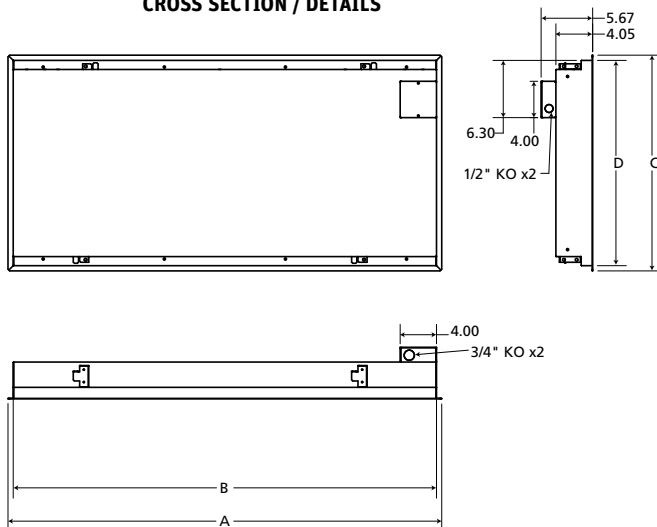


Maximum Candela = 5943 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

### DIMENSIONAL DATA

#### CROSS SECTION / DETAILS



#### DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
<b>1x4</b>	47.75	46.60	11.75	10.60
Recommended Ceiling Cut-Out 10.85 x 46.85				
<b>2x2</b>	23.61	22.60	23.61	22.60
Recommended Ceiling Cut-Out 22.85 x 22.85				
<b>2x4</b>	47.75	46.60	23.75	22.60
Recommended Ceiling Cut-Out 22.85 x 46.85				



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# INDIGO-CLEAN™ ROOM CONTROLLER SYSTEM

## IC100 SERIES

### PRODUCT FEATURES:

- » Room-level Disinfection Mode Control
- » Infrared & Ultrasonic Occupancy Detection

### SPECIFICATIONS

**IC100 CONTROLLER:** Centralized, zonal whole room continuous disinfection. Automatically switches Indigo-Clean luminaires between white disinfection and Indigo-Clean disinfection modes. Receives input from (1) ultrasonic and up to (5) passive-infrared (PIR) sensors with optional switch (by others). 0-10VDC dimming signal output to luminaires. Integral LED indicators provide system status. Dual technology controller requires input from both PIR and ultrasonic sensors. Maximum sink current per controller: 30mA.

**IC100 SENSORS:** Operates on low-voltage power provided by the IC100 Controller. System includes three (3) passive infrared (PIR) sensors and one (1) ultrasonic, high-frequency (40kHz), sensor.

**CONTROLLER HOUSING:** Seam-welded 18-gauge CRS. White TGIC polyester powder coat finish with five-step pre-treatment. Housings provided with multiple 1/2" and 3/4" conduit knockouts. Controller housing includes clear polycarbonate window for viewing of system status indicators. Silicone gasketing. Pin-tumbler style keyed lock. All locks are keyed alike, two keys included.

**INSTALLATION:** Controller housing suitable for mounting to wall or ceiling surfaces with four-point mounting. Un-switched 120VAC or 277VAC input required for the IC100 controller. All signal cabling shall be wired Class 1 with 18AWG, 600V TFFN wire. IC100 ultrasonic and PIR sensors suitable for mounting to ceiling junction box.

PROJECT INFORMATION	
Job Name	_____
Fixture Type	_____
Catalog Number	_____
Approved by	_____



Controller



Ultrasonic Sensor  
One (1) Included



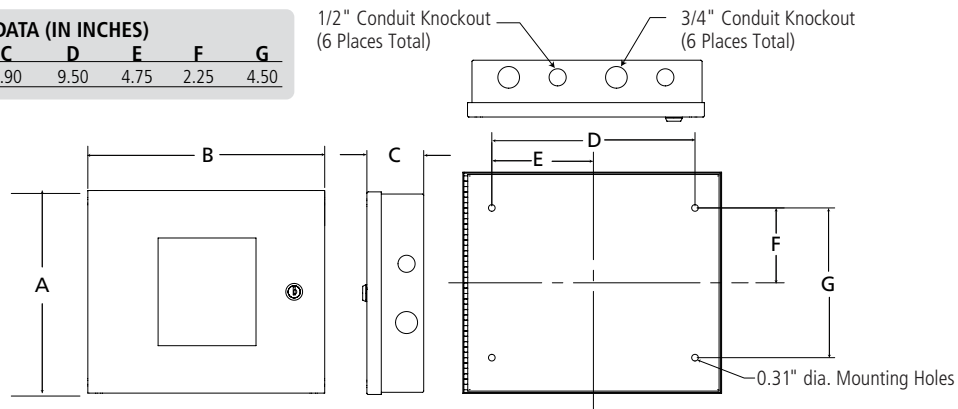
PIR Sensor  
Three (3) Included

### DIMENSIONAL DATA

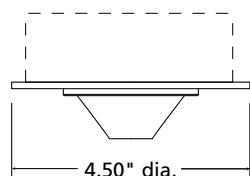
#### DIMENSIONAL DATA (IN INCHES)

A	B	C	D	E	F	G
6.85	14.10	2.90	9.50	4.75	2.25	4.50

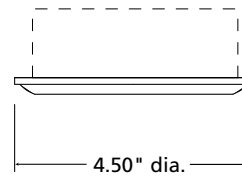
#### CONTROLLER HOUSING



#### PIR SENSOR



#### ULTRASONIC SENSOR



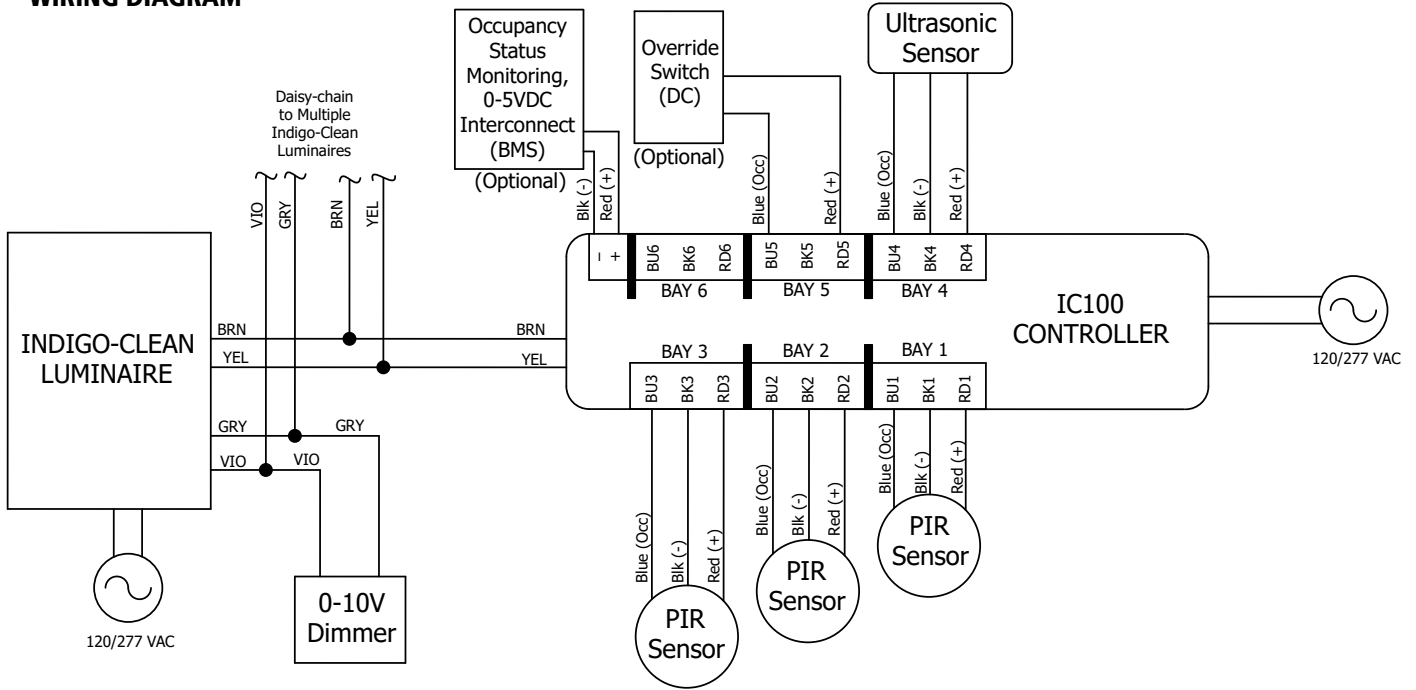
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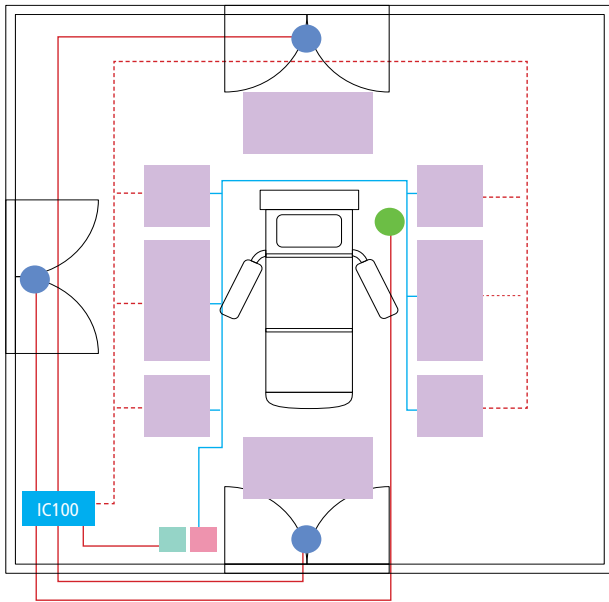
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# INDIGO-CLEAN™ ROOM CONTROLLER SYSTEM

## IC100 SERIES WIRING DIAGRAM



## TYPICAL LUMINAIRE/IC100 CONTROLS ROOM LAYOUT



- Indigo-Clean Fixtures
- Ultrasonic Sensor
- Passive Infrared Sensor
- External 0-10V Dimmer
- White Disinfection Mode Override Switch (DC) <OPTIONAL>

### IC100 Mode Control Load Limits

Product	Source Current per Luminaire (mA)	Max Luminaires per IC100 Controller
M4SEDIC-14	2	30
M4SEDIC-22	2	30
M4SEDIC-24	4	15
MEIC-22	1	60
MEIC-24	2	30
M4DLIC6	1	60

NOTE: Multiple Indigo-Clean product types may be controlled from a single IC100 controller as long as the maximum sink current rating (25mA) is not exceeded.



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