

# INDIGO-CLEAN™ MEIC SERIES

## Patented Continuous Environmental Disinfection System

### Dual Mode White and Indigo Disinfection LED

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

#### PRODUCT FEATURES:

- » Two operational modes: Ambient White Disinfection Mode & Indigo Disinfection Mode
- » Recessed ceiling mount – grid or flange; 2'x2' and 2'x4'
- » Stands up to rigorous cleaning protocols
- » Tool-less access for relamping and maintenance



#### SPECIFICATIONS

**HOUSING:** 20-gauge CRS. One-piece seam-welded construction. Black TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

**HOUSING FLANGE:** 18-gauge CRS, standard 4-piece construction, spot-welded to housing. Mitered and welded corners.

**REFLECTOR/LENS ASSEMBLY:** 20-gauge CRS. One-piece seam-welded construction. Tool-free lamp access. White High (92%) Reflectance Low Gloss TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

**LAMP SHIELDING:** Fully gasketed, sealed luminous shield of impact resistant DR acrylic.

**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. 500 µA 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 received by provided external IC100 room control system.

**CONTROLS:** Disinfection switching mode determined via internal low-voltage device based upon input received by provided external IC100 room control system.

**INSTALLATION:** Grid Mount: Designed for 1" and Slot-T grid. Includes hardware to secure hanger wire. Flange Mount: Includes Frame Kit.

**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](http://www.kenall.com/patents). Other patents pending.

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

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for IC and Wet Location installations. ETL certified IP64 per IEC60598. NSF2 Splash/Non-Food Zone. CCEA Approved. EPA Est. No. 99283-WI-1.



#### ORDERING INFORMATION (Ex: MEIC24-G-75I/50L-37K8-DCC-DV-FA-AMF)

Model	Mounting Options	Lamp Power	Lamp Color	Driver Type <b>DCC</b>	Voltage <b>DV</b>	Lens Type <b>FA</b>	Options
<b>Series</b>		<b>Lamp Power</b>			<b>Voltage</b>		
<b>MEIC22</b>	2'x2'	<b>2'x2'</b>			<b>DV</b>		
<b>MEIC24</b>	2'x4'	<b>38I/25L</b>	38 Watt Indigo/25 Watt White Disinfection LED		120-277VAC, 50/60Hz		
<b>Mounting Options</b>		<b>2'x4'</b>			<b>Lens Type</b>		
<b>G</b>	Grid (1")	<b>75I/50L</b>	75 Watt Indigo/50 Watt White Disinfection LED		<b>FA</b>	Frosted DR Acrylic	
<b>ST</b>	Grid (Slot T)				<b>Options</b>		
<b>F</b>	Flange	<b>Lamp Color</b>			<b>AMF</b>	Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame	
		<b>37K8</b>	3700K, 80 CRI		<b>FS</b>	Fuse & Holder	
		<b>37K9</b>	3700K, 90 CRI				
		<b>43K8</b>	4300K, 80 CRI				
		<b>43K9</b>	4300K, 90 CRI				
		<b>Driver Type</b>					
		<b>DCC</b>	0-10V Dimming				



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# INDIGO-CLEAN™ MEIC SERIES

Patented Continuous Environmental Disinfection System

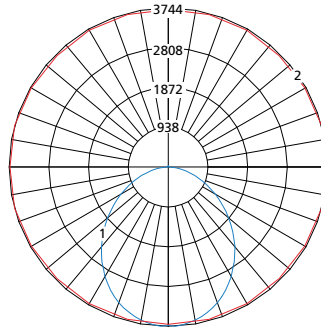
## Dual Mode White and Indigo Disinfection LED

### PERFORMANCE

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>	
2'x2'	White Disinfection Mode	381/25L-37K8	3,856	33	85	15	80	100	125,000
		381/25L-37K9	3,168	33	96	59	92	100	
		381/25L-43K8	3,844	33	84	11	80	99	
		381/25L-43K9	3,272	33	93	53	90	98	
	Indigo Disinfection Mode	All	-	37	-	-	-	-	50,000
2'x4'	White Disinfection Mode	751/50L-37K8	8,593	67	85	15	80	100	125,000
		751/50L-37K9	7,060	67	96	59	92	100	
		751/50L-43K8	8,568	67	84	11	80	99	
		751/50L-43K9	7,292	67	93	53	90	98	
	Indigo Disinfection Mode	All	-	75	-	-	-	-	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: MEIC-24-751/50L-43K8-DCC-DV-FA

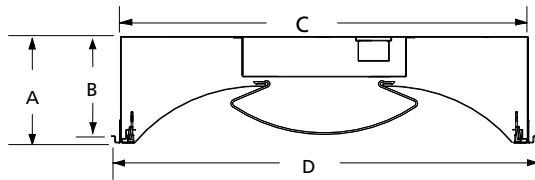


Maximum Candela = 3744 Located At Horizontal Angle = 15, Vertical Angle = 2.5

- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

### DIMENSIONAL DATA

CROSS SECTION



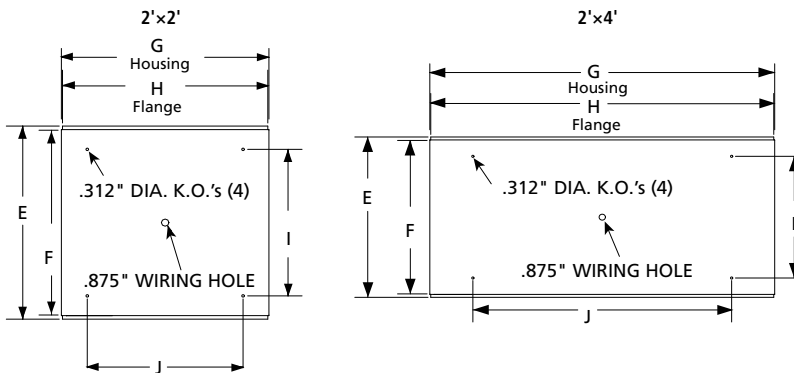
DIMENSIONAL DATA (IN INCHES)

	A	B*	C	D	E	F	G	H	I	J
<b>2x2</b>	6.30	5.93*	22.70	23.72	23.72	22.70	23.98	23.72	18.00	18.00
<b>2x4</b>	6.30	5.93*	22.70	23.72	23.72	22.70	47.98	47.72	18.00	36.00

Recommended Ceiling Cut-Out for 2x2 is 24.50x24.50 (Flange fixtures)  
Recommended Ceiling Cut-Out for 2x4 is 24.50x48.50 (Flange fixtures)

\*ST Mounting Option Only

BACK VIEW



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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. All signal cabling shall be wired Class I with 18AWG, 600V TFFN wire. IC100 ultrasonic and PIR sensors suitable for mounting to ceiling junction box.

PROJECT INFORMATION	
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Fixture Type	_____
Catalog Number	_____
Approved by	_____



Controller



Ultrasonic Sensor  
One (1) Included



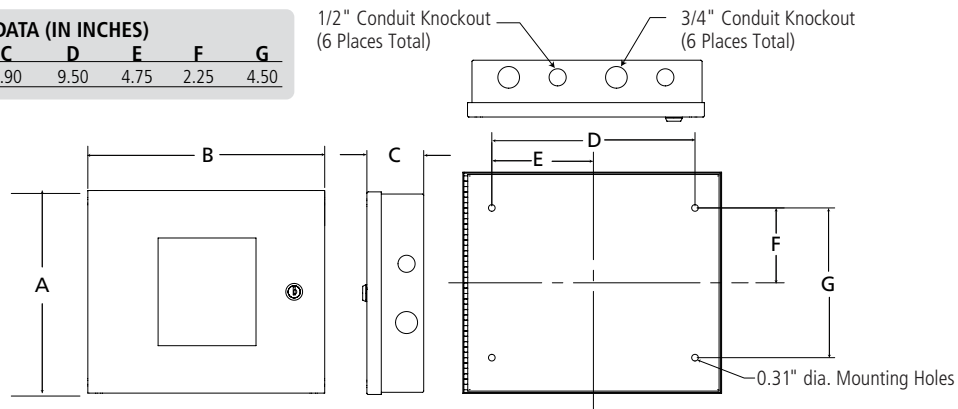
PIR Sensor  
Three (3) Included

### DIMENSIONAL DATA

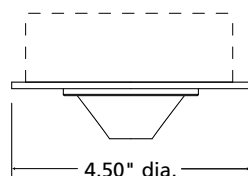
#### DIMENSIONAL DATA (IN INCHES)

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

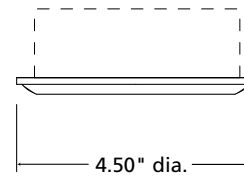
#### CONTROLLER HOUSING



#### PIR SENSOR



#### ULTRASONIC SENSOR



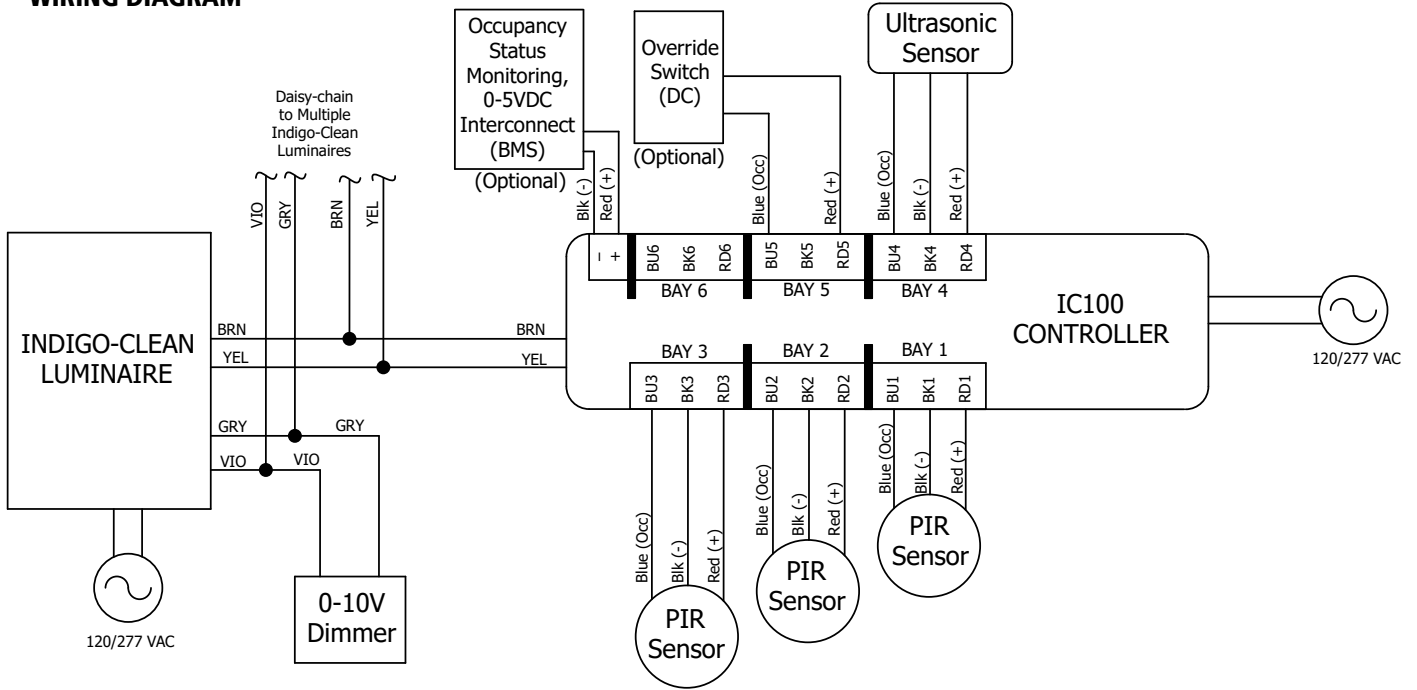
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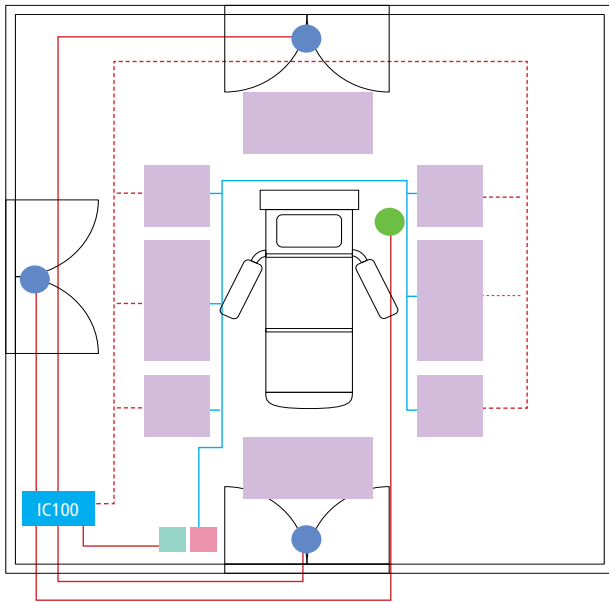
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# INDIGO-CLEAN™ ROOM CONTROLLER SYSTEM

## 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	0.5	60
M4SEDIC-22	0.5	60
M4SEDIC-24	1	30
MEIC-22	0.25	120
MEIC-24	0.5	60
M4DLIC6	0.25	120

NOTE: Multiple Indigo-Clean product types may be controlled from a single IC100 controller as long as the maximum sink current rating (30µA) is not exceeded.



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