INDIGO-CLEAN™ M4SEDIC SERIES

Patented Continuous Environmental Disinfection System

Switchable White and Indigo Disinfection LED

PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

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 accomodates 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

1'×4' 2'×2' 2'×4'

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 composite-bodied 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 (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range with dim-to-dark capabilities in White Disinfection Mode. 700 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 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: One (1) year warranty against defects in materials and workmanship. Five (5) year warranty on LEDs and driver for defects resulting in a fixture lumen depreciation of 30% or greater.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. UL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 100 (ISO 5) Cleanrooms. Conducted emissions controlled as per MIL-STD-461G. CCEA Approved.

LED · ETL · IP65 · NSF · ISO 5 Class 100 · MIL STD 461G · CCEA Approved

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
M4SEDIC				**DCC**				**SYM**	

Size
14 1'×4' Nominal
22 2'×2' Nominal
24 2'×4' Nominal

Lamp Power
1'×4'
75I/50L 75 Watt Indigo/50 Watt White LED

2'×2'
75I/50L 75 Watt Indigo/50 Watt White LED

2'×4'
150I/100L 150 Watt Indigo/100 Watt White LED

Lamp Color
37K8 3700K, 80 CRI
37K9 3700K, 90 CRI
43K8 4300K, 80 CRI
43K9 4300K, 90 CRI

Driver Type
DCC Dimming Constant Current

Input Voltage
120 120VAC
277 277VAC

Doorframe Options
2F 18-Ga CRS Painted Antimicrobial (STD)
AF Anodized Aluminum
PAF Painted Antimicrobial Fabricated Aluminum
5F 20-Ga Type 304 SS Brushed

Housing Options
2H 20-Ga CRS; Painted Antimicrobial (STD)
5H 20-Ga Type 304 SS
PAH .050" Painted Antimicrobial Aluminum

Optics
SYM Symmetric, Diffused DR Acrylic

Options
LEL Emergency Integral Battery Pack
FS Fuse & Holder
RM* Continuous Row Mounting

* Only available when installing in drywall ceilings (flange mount)

www.kenall.com **P: 800-4-Kenall** **F: 262-891-9701** **10200 55th Street Kenosha, Wisconsin 53144**

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INDIGO-CLEAN™ M4SEDIC Series

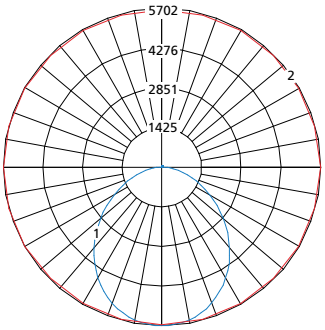
Patented Continuous Environmental Disinfection System

Switchable 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_a	R_9	R_f	R_g	
1'×4'	White Disinfection Mode	75I/50L-37K8	6,411	74	83	21	77	101	125,000
		75I/50L-37K9	5,438	72	93	73	86	105	
		75I/50L-43K8	6,773	80	84	21	79	99	
		75I/50L-43K9	5,585	75	92	83	86	105	
	Indigo Disinfection Mode	All	-	83	-	-	-	-	50,000
2'×2'	White Disinfection Mode	75I/50L-37K8	6,245	74	83	21	77	101	125,000
		75I/50L-37K9	5,297	72	93	73	86	105	
		75I/50L-43K8	6,597	80	84	21	79	99	
		75I/50L-43K9	5,440	75	92	83	86	105	
	Indigo Disinfection Mode	All	-	83	-	-	-	-	50,000
2'×4'	White Disinfection Mode	150I/100L-37K8	13,320	148	83	21	77	101	125,000
		150I/100L-37K9	11,299	143	93	73	86	105	
		150I/100L-43K8	14,072	160	84	21	79	99	
		150I/100L-43K9	11,603	150	92	83	86	105	
	Indigo Disinfection Mode	All	-	165	-	-	-	-	50,000

Information subject to change without notice. TM-30 Color Vector Graphic available upon request. Visit www.kenall.com for .ies files and additional information.

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

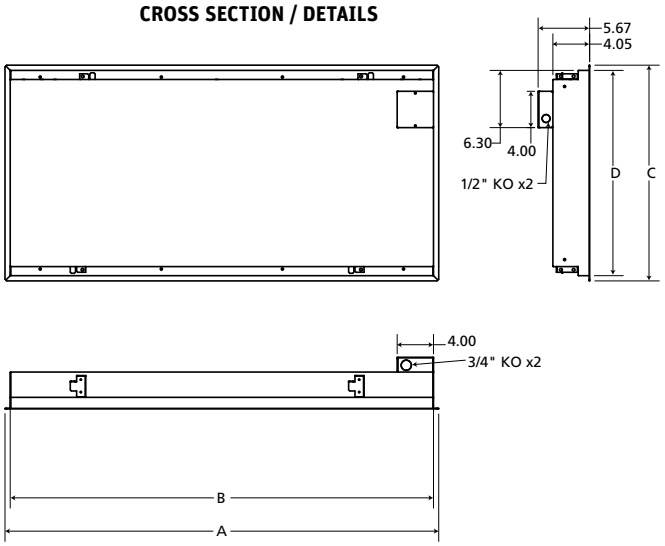


Maximum Candela = 5702 Located At Horizontal Angle = 0, Vertical Angle = 2.5

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
1×4	47.75	46.60	11.75	10.60
Recommended Ceiling Cut-Out 10.85 × 46.85				
2×2	23.61	22.60	23.61	22.60
Recommended Ceiling Cut-Out 22.85 × 22.85				
2×4	47.75	46.60	23.75	22.60
Recommended Ceiling Cut-Out 22.85 × 46.85				

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INDIGO-CLEAN™ ROOM CONTROLLER SYSTEM

IC100 SERIES

PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

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 (3) passive-infrared (PIR) and (1) ultrasonic sensor 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.

IC100 SENSORS: Operates by low-voltage power provided by IC100 Controller. INFRARED: System includes three (3) passive infrared (PIR) occupancy detection. Lenses provide 360º coverage. Adjustable occupancy time-out delay 0-30 min. ULTRASONIC: System includes one (1) high-frequency (40kHz) occupancy detector suitable for open area detection with line-of-sight obstructions; includes sensitivity adjustment. Adjustable occupancy time-out delay 0-30 min.

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.

Controller

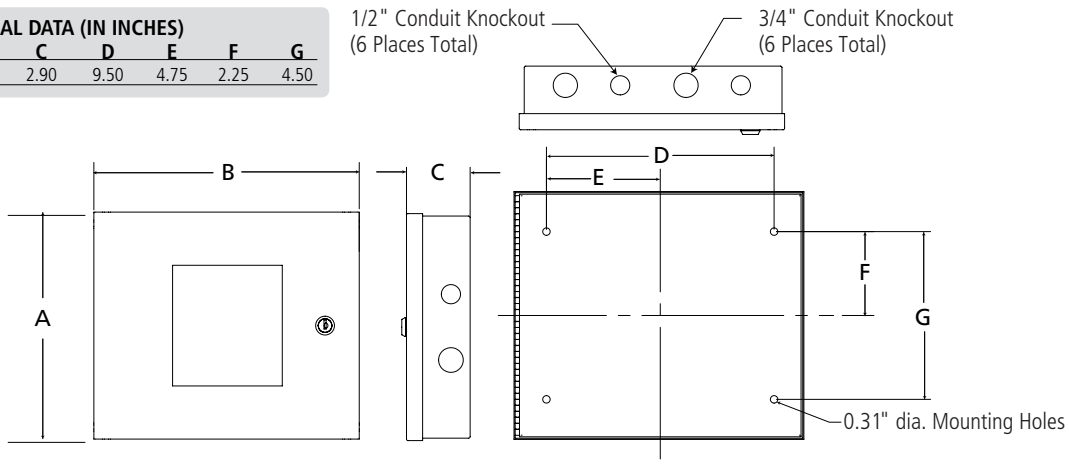
Ultrasonic Sensor
One (1) included

PIR Sensor
Three (3) included

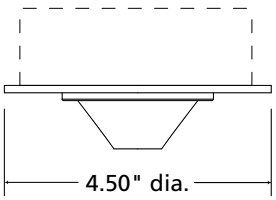
CONTROLLER HOUSING

DIMENSIONAL DATA (IN INCHES)

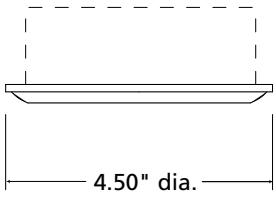
A	B	C	D	E	F	G
6.85	14.10	2.90	9.50	4.75	2.25	4.50



PIR SENSOR



ULTRASONIC SENSOR



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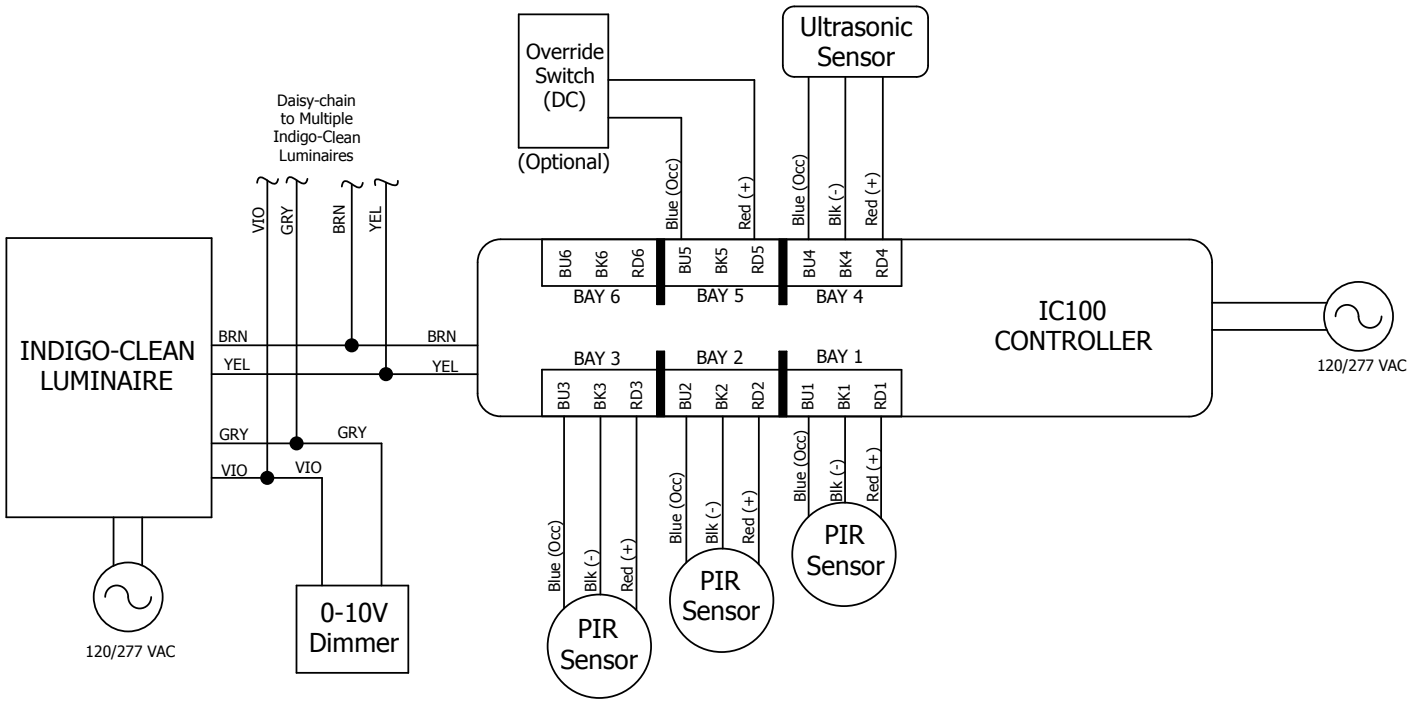
INDIGO-CLEAN™ ROOM CONTROLLER SYSTEM

IC100 SERIES



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