

Electronic ballast operate at a much higher frequency, typically between 40KHz to 80KHz. The intervals when the arc is turned off are short enough that the phosphorus produces light for a longer period of time each second. As a result, the total light output of the lamp is greater.

RF Arrays Wireless Dimmable Ballast reduces the power that the ballast-lamp system requires to produce the same intensity of light produced by conventional ballasts. Another advantage of electronic ballasts is that they have approximately one third the internal energy losses of electromagnetic ballasts. This lower loss rate means improved efficiency and reduced heating loads.

- A. Single Tube Ballast T8, 36W
- B. Single Tube Ballast T12,40W
- C. Twin Tube Ballast T8 2 X 36W
- D. Retrofit for HPSV 75W, 150W, 250W, 400W

TECHNICAL SPECIFICATIONS

	T8 Twin Tube (2 X36W)	T8 Single Tube (36 W)
Physical		
Dimensions	270mm x 60mm x 40mm	280mm x 40mm x 40mm
Enclosure		
Electrical		
Mains Voltage	90-277 V AC, 50Hz/ 60Hz	170-270 V AC, 50Hz/ 60Hz
Mains Current	0.28 Amps @ 230VAC	0.19 Amps @ 230VAC
Input Power	< 64W	< 34W
Intensity Dimming	100% to 10%	100% to 10%
External Shutdown	Provided	Provided
Operating Frequency	≥ 30KHz	≥ 30KHz
T8 Filament Tube		
Ignition Voltage	≤ 800 V	≤ 750 V
Ignition Current	2.9 A	1.9 A
PFC Circuit		
Input Power	63W @ 230V	33W @ 230V
Input Current	0.28 Amps @ 230V	0.19 Amps @ 230V
Expected Power Factor	Above 0.98	Above 98%
Environmental		
Operating Temperature	-10 °C to 50°C	-10 °C to 50°C

RF Arrays offers a complete solution using various types of RF Modules and devices, useful for Home Automation, Industrial Solution & Commercial Projects

- ... Motion Sensor Device: It detects the motion within a vicinity and send the RF signals to the controller
- ... Temperature Sensor Device: It senses the temperature of an area and reports to the coordinator which in turn send controls signals to increase or decrease the temperature of a place.
- ... Ambient light sensor: It senses the intensity of light of surrounding area and maintains the sufficient light intensity inside a working place.
- ... Remote control for lights: This is useful in large premises where manual operation of lights is a tedious process. You can control illumination with a single remote.

All the above devices impart a unique combination of flexibility and robustness to the solutions, setting it ahead of similar products in the market.



WIRELESS LIGHTING control SOLUTIONS

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WIRELESS DIMMABLE BALLAST

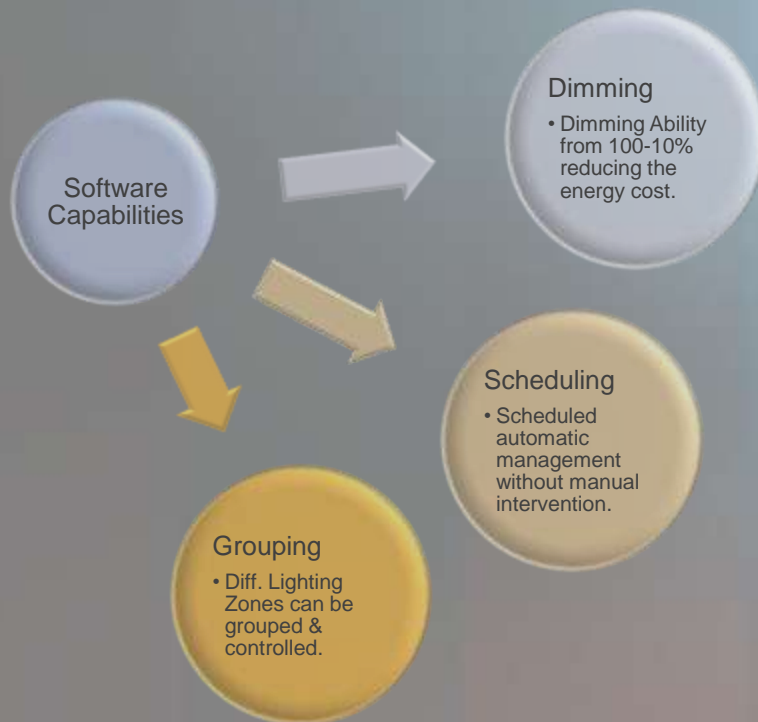
The "ULTIMATE" Wireless/Remote controlled Dimmable Electronic Ballast from RF Arrays makes fluorescent dimming systems fast and easy to install. RF Arrays has designed and developed a unique state of the art system for both indoor and outdoor lighting. Based on IEEE 802.15.4 ZigBee protocol the system can wirelessly control, monitor and manage complete lighting system through a user friendly software from a centralized PC. Timely ON/OFF and intensity control as per ambient light conditions saves up to 40% energy cost. Higher operational frequency increases lamp life by 20 to 25%.

The "ULTIMATE" dims direct through RF Module from a centralized PC thereby requiring no additional control wiring. This ease provides an easy-to-install retrofit option along with cost-effective new construction opportunities.

"ULTIMATE" does not have to ramp up to full light output and then dim. The ballast will start lamps at the low dim level. The full dimming range helps to improve comfort levels for area occupants.

The "ULTIMATE" ballast utilizes a lamp end-of-life (EOL) detection system. This system safely removes power from the lamp at end of life and prevents lamp overheating.

The Dimming Ballast adjust Light Levels through low voltage controlled frequency modulation. It provides controllable brightness without sacrificing energy efficiency.



- ### FEATURES
- Intensity Regulation
 - Low Power Operation
 - User Friendly Operation
 - Increased Lamp Life
 - Low Installation and Maintenance
 - Scheduling and Grouping of Lights
 - Centralized Wireless Lighting Control

- ### APPLICATIONS
- Parking Garages
 - Corridor, Lobbies
 - Outdoor Lighting
 - Warehouse Lighting
 - Street Lighting
 - Residential Areas
 - Shopping Malls, Departmental, Specialty Stores
 - Commercial Complexes
 - Hotels, Restaurants, Conference Rooms
 - Offices, Boardrooms
 - Schools, Training Areas
 - Industrial
 - Auditoriums
 - Houses of Worship
 - Healthcare Facilities

- ### ADVANTAGES
- Up to 40% energy saving
 - It can regulate the light intensity from 100 – 10%
 - Auto shutdown mode is provided when lamp is not connected or faulty
 - Easily installation and zero maintenance cost.
 - Meantime data available for analysis
 - Wireless network has a low installation and maintenance cost
 - Operates from a central control unit

Lamps	100 % Intensity		70 % Intensity		50% Intensity		Saving per fixture per year @ 4.5/ unit
	Av. Lux level	Consumption in Watts	Av. Lux level	Consumption in Watts	Av. Lux level	Consumption in Watts	
250 W HPSV	56 (MH 30 ft)	280	38	160	16	110	Rs. 2350.00
150 W HPSV	18 (MH 30 ft)	170	16	115	9.5	90	Rs.1075.00
36 W X 2 TFL	64 (MH 12 ft)	63	16	48	8	34	Rs. 880.00