

ANALOG DIMMING
ELECTRONIC BALLAST
0 to 10 vDC CONTROL



ES5839K

APPLICATION and PERFORMANCE SPECIFICATION ES-1-T5-21-UNV-K-DIM-10

Description: High frequency dimming electronic ballast for (1) 21W T5 lamp

- Line voltage: 120vac to 277vac, $\pm 10\%$, 50-60Hz
- Super LampGard™ lamp end-of-life protection
- Programmed rapid start
- Active power factor correction

Ballast Voltage	Lamp		Input Watts		Input Amps		PF	BF	BEF	THD	Crest Factor
	Type	#	Max.	Min.	Max.	Min.					
120	F21T5	1	28	8	0.23	0.07	> .99	1.00	3.64	<10%	< 1.7
277	F21T5	1	28	9	0.16	0.04	> .98	1.00	3.64	<10%	< 1.7

Data taken at 100% Light Level unless otherwise noted.

Application and operation performance specification information subject to change without notification.

Performance:

- Meets ANSI Standard C82.11-1993
- Meets ANSI Standard C62.41-1991
- Meets FCC Part 18 for EMI and RFI Non-Consumer Limits

Safety:

- No PCB's
- UL LISTED (Class P, Type 1 Outdoor)
- CSA Certified

Application:

- Minimum starting temperature: 32° F, 0° C
- Maximum case temperature: 194° F, 90° C
- Sound rating: Class A
- May not be compatible with some "powerline carrier" and/or infrared systems; consult factories
- Dimming range: 100% to 1% light output
- Line voltage protection for control circuit
- Maximum lead lengths:
Red: 30"
Blue: 48"

Physical Parameters:

- Length (including brackets): 16.65"
- Length (mounting dimension): 16.30"
- Length (case only): 15.77"
- Width: 1.24"
- Height: 1.00"
- Weight: 0.73 lb.
- Carton quantity: 50
- Lead entry: End Feed

Warranty:

- Universal Lighting Technologies warrants to the purchaser that each electronic ballast will be free from defects in material or workmanship for a period of (3) years from date of manufacture when properly installed and under normal conditions of use.

Dimming Control Specifications:

- 10 to 0 vDC Voltage Control
- 10v = maximum output
- 0v = minimum output
- Built-in line voltage protection circuit: Deep-dimming condition when line voltage is applied to control leads
- Can be wired as Class 1 or Class 2 Circuit
- Ballast will source a maximum of 200uA for control needs

Manufactured in North America

Ballast must be grounded in accordance with national and local electrical codes

Control Wiring

- Use Purple (+) & Gray (-) for connection to 0-10vDC.
- Ballast protected if line voltage is applied.
- Wiring Purple & Gray together provides 1% light output.
- Capping Purple & Gray separately provides 100% light output.

