



GE  
Lighting

## 68993 - GE228MVPS-MC

### GE LFL UltraStart(R) Electronic Program / Rapid Start Ballast

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- UltraCool™ Operation 90C case rating
- Anti-Striation Control for better light quality, with no striations.

## GENERAL CHARACTERISTICS

Category	Linear Fluorescent
Ballast Type	Electronic - Program / Rapid Start
Starting Method	Programmed Rapid Start
Lamp Wiring	Parallel
Line Voltage Regulation (+/-) (NOM)	10.0 %
Ambient Temperature (MIN)	0.0 °F
Ambient Temperature (MAX)	131.0 °F ( 55 °C)
Case Temperature (MAX)	90.0 °C
Ballast Factor	Normal-High (1.0)
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal Can
Additional Info	Anti-striation control / Ballast thermal protection / Auto reset after lamp replacement / End of Lamp Life Shutdown Circuitry

## PRODUCT INFORMATION

Product Code	68993
Description	GE228MVPS-MC
Standard Package	00-Case
Standard Package GTIN	10043168689936
Standard Package Quantity	10
Sales Unit	Pallet
No Of Items Per Sales Unit	10
No Of Items Per Standard	10
Package	
UPC	043168689939

## DIMENSIONS

Case dimensions			
Length (L)		9.5 in( 241.30 mm)	
Width (W)		1.3 in( 33.02 mm)	
Height (H)		1.0 in( 25.40 mm)	
Mounting dimensions			
Bracket Length (BL)		NaN in( NaN mm)	
Mount Length (M)		8.9 in( 225.81 mm)	
Mount Width (X or F)		0.9 in( 22.35 mm)	
Mount Slots (MS)		0.3 in( 7.92 mm)	
Weight (NOM)		1.0 lb	
Exit Type		Side	
Remote Mounting Distance (NOM)		8.0 ft	
Lead lengths	Qty	Exit	Length (± 1 in.)
Black	1	Left	20 ( 508 mm)
White	1	Left	20 ( 508 mm)
Yellow	1	Right	37 ( 940 mm)
Blue	1	Right	26 ( 660 mm)
Red	1	Right	26 ( 660 mm)

## ELECTRICAL CHARACTERISTICS

Supply Current Frequency (NOM)	50.0 Hz / 60.0 Hz
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## SAFETY & PERFORMANCE

- ANSI - C82.11
- ANSI - C62.41
- FCC - CLASS A Non-Consumer
- No PCB's
- Type CC
- Type HL
- UL Type 1 Outdoor
- UL Class P
- UL Listed
- RoHs Compliant
- High Temperature Rated: Suitable for high temperature applications
- 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
- CSA

## SPECIFICATIONS BY LAMP & WATTAGE

Lamp	# of Lamps	Line Volts	System Watts	Nom. Line Current	System Ballast Factor	Ballast Efficacy Factor	Power Factor% (>=)	Crest Factor (<=)	THD% (<=)	Min. Starting Temp (°F/ °C)
F35T5/WM	1	120	44	0.36 A	1.08	2.45	99		9.0	5.0 °F / NaN
F35T5/WM	1	277	43	0.17 A	1.08	2.51	92		8.0	5.0 °F / NaN

F35T5/WM	2	120	70	0.59 A	0.94	1.34	99		8.0	5.0 °F / NaN
F35T5/WM	2	277	69	0.26 A	0.94	1.36	96		9.0	5.0 °F / NaN
F35T5/HE	1	120	46	0.39 A	1.11	2.41	99			5.0 °F / NaN
F35T5/HE	1	277	46	0.18 A	1.11	2.41	93		8.0	5.0 °F / NaN
F35T5/HE	2	120	74	0.62 A	0.95	1.28	99		9.0	5.0 °F / NaN
F35T5/HE	2	277	73	0.27 A	0.95	1.30	97		8.5	5.0 °F / NaN
F28T5/WM	2	120	59	0.5 A	0.98	1.67	99	1.4	7.0	32.0 °F / NaN
F28T5/WM	2	277	58	0.22 A	0.98	1.70	98	1.4	6.0	32.0 °F / NaN
F28T5/WM	1	120	36	0.3 A	1.08	3.00	99		10.0	32.0 °F / NaN
F28T5/WM	1	277	36	0.15 A	1.08	3.00	90		10.0	32.0 °F / NaN
F28T5/HL	1	120	41	0.35 A	1.21	2.95	99	1.4	8.0	32.0 °F / NaN
F28T5/HL	2	120	62	0.52 A	0.96	1.60	99	1.4	7.0	32.0 °F / NaN
F28T5/HL	1	277	41	0.15 A	1.21	2.95	97	1.4	10.0	0.0 °F / NaN
F28T5/HL	2	277	60	0.23 A	0.96	1.63	98	1.4	6.0	0.0 °F / NaN
F28T5/HE	1	120	41	0.35 A	1.21	2.95	99	1.4	8.0	0.0 °F / NaN
F28T5/HE	1	277	41	0.16 A	1.21	2.95	97	1.4	9.0	0.0 °F / NaN
F28T5/HE	2	277	60	0.22 A	0.96	1.63	99	1.4	6.0	0.0 °F / NaN
F28T5/HE	2	120	62	0.53 A	0.96	1.60	99	1.4	7.0	0.0 °F / NaN
F21T5/WM	2	120	45	0.38 A	1.01	2.24	99		9.0	5.0 °F / NaN
F21T5/WM	1	120	29	0.24 A	1.15	3.97	99		10.0	5.0 °F / NaN
F21T5/WM	1	277	29	0.12 A	1.15	3.97	85		9.0	5.0 °F / NaN
F21T5/WM	2	277	45	0.18 A	1.01	2.24	93		8.0	5.0 °F / NaN
F21T5/HE	1	120	31	0.26 A	1.16	3.74	99		9.0	5.0 °F / NaN
F21T5/HE	1	277	31	0.13 A	1.16	3.74	86		10.0	5.0 °F / NaN
F21T5/HE	2	120	51	0.43 A	1.04	2.10	99	1.4	8.0	32.0 °F / NaN
F21T5/HE	2	277	50	0.18 A	1.04	2.10	98	1.4	7.0	32.0 °F / NaN
F14T5/WM	1	120	22	0.18 A	1.15	5.23	99		9.0	5.0 °F / NaN
F14T5/WM	2	120	36	0.3 A	1.10	3.09	99	1.4	9.0	32.0 °F / NaN
F14T5/WM	1	277	22	0.1 A	1.15	5.23	75		9.0	5.0 °F / NaN
F14T5/WM	2	277	36	0.13 A	1.10	3.09	97	1.4	11.0	32.0 °F / NaN
F14T5/HE	1	120	23	0.19 A	1.20	5.22	99		9.0	5.0 °F / NaN
F14T5/HE	1	277	23	0.11 A	1.20	5.22	78		10.0	5.0 °F / NaN
F14T5/HE	2	120	37	0.32 A	1.10	3.03	99	1.4	9.0	32.0 °F / NaN
F14T5/HE	2	277	37	0.14 A	1.10	3.03	89	1.4	10.0	32.0 °F / NaN

**NOTES**

- FOR ONE LAMP OPERATION INSULATE BLUE LEADS INDIVIDUALLY

**WARRANTY INFORMATION**

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.