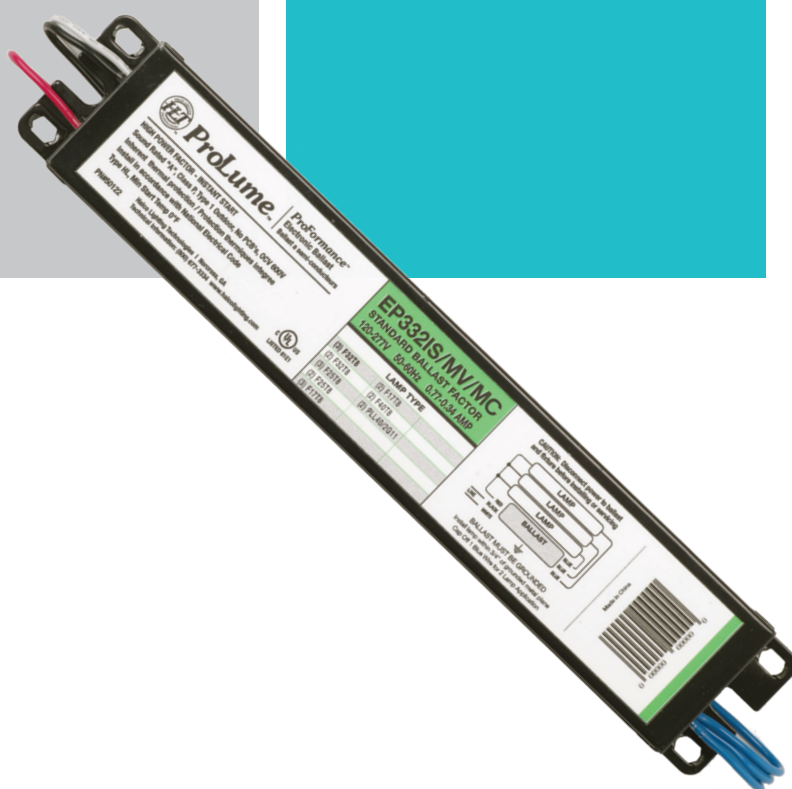


ELECTRONIC FLUORESCENT BALLASTS



CONTENTS

- 172 How to Read a Table
- 173 T5 Ballasts
- 178 T5 Circline Ballasts
- 180 T8 Ballasts
- 193 T9 Circline Ballasts
- 195 T12 Ballasts
- 200 Cross Reference Guide
- 201 Specifications
- 202 Lamp Compatibility Specifications

HOW TO READ AN ELECTRONIC FLUORESCENT BALLAST TABLE

PRODUCT CODE

Abbreviated product description can also be used for ordering.

BALLAST FACTOR

Ratio of the lamp's lumen output on the specified ballast to the lamp's lumen output when operated by a reference ballast.

CASE DIMENSIONS

Specifies ballast overall length, mounting length, width, and height.

INPUT VOLTS

Voltage required from a power supply for proper ballast operation.

INPUT POWER

Total power input to the ballast which includes lamp watts and ballast losses.

WIRING DIAGRAM

References the wiring diagram to use.

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp.	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
► F28T5																	
1	28	PS	120	50166	EP228PS/MV	0.28	33	0.98	1.05	<10	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	28	PS	277	50166	EP228PS/MV	0.13	33	0.98	1.05	<10	0°F	1-24	J	16.90"	16.00"	1.20"	1.00"
	28	PS	120	52112	EP228PS/MV/MC	0.29	31	0.98	1.05	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.10"
	28	PS	277	52112	EP228PS/MV/MC	0.12	31	0.98	1.05	<10	0°F	1-10	F	9.50"	8.90"	1.30"	1.10"

LAMP TYPE
Indicates the type of lamp that the ballast will operate.

PRODUCT NUMBER
Use this number when placing an order.

LINE CURRENT
The current that results when the line voltage is applied to a load.

POWER FACTOR
Watts to volt amps ratio, which measures efficiency of a ballast's power usage.

THD%
Indicates percentage of Total Harmonic Distortion.

MIN. START TEMP.
References minimum ambient temperature that the ballast will reliably start a lamp.

CASE
References the ballast's case shape.

ELECTRONIC FLUORESCENT BALLASTS

T5

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F6T5																	
2	6	RS	120	50104	E114RS/120	0.23	14	0.53	1.00	<150	0°F	2-7	K	5.90"	5.60"	0.91"	0.76"
F8T5																	
2	8	RS	120	50104	E114RS/120	0.25	16	0.53	0.95	<150	0°F	2-7	K	5.90"	5.60"	0.91"	0.76"
F13T5																	
1	13	RS	120	50104	E114RS/120	0.22	14	0.53	0.95	<130	0°F	1-7	K	5.90"	5.60"	0.91"	0.76"
F14T5																	
1	14	RS	120	50104	E114RS/120	0.23	15	0.54	0.95	<130	0°F	1-7	K	5.90"	5.60"	0.91"	0.76"
	14	PS	120	52112	EP228PS/MV/MC	0.14	17	0.98	1.07	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
	14	PS	277	52112	EP228PS/MV/MC	0.07	17	0.98	1.07	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
2	14	PS	120	52112	EP228PS/MV/MC	0.28	33	0.98	1.04	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
	14	PS	277	52112	EP228PS/MV/MC	0.13	33	0.98	1.04	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
F21T5																	
1	21	RS	120	50104	E114RS/120	0.30	21	0.57	0.80	<150	0°F	1-7	K	5.90"	5.60"	0.91"	0.76"
	21	PS	120	52112	EP228PS/MV/MC	0.22	25	0.98	1.06	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
	21	PS	277	52112	EP228PS/MV/MC	0.10	25	0.98	1.06	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
2	21	PS	120	52112	EP228PS/MV/MC	0.39	49	0.98	1.02	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
	21	PS	277	52112	EP228PS/MV/MC	0.17	49	0.98	1.02	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.10"
F24T5/HO																	
1	24	PS	120	50142	EP239HO/PS/MV	0.24	29	0.98	1.10	<12	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	24	PS	277	50142	EP239HO/PS/MV	0.12	29	0.98	1.12	<12	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
2	24	PS	120	50142	EP239HO/PS/MV	0.44	52	0.98	1.00	<12	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
	24	PS	277	50142	EP239HO/PS/MV	0.20	52	0.98	1.00	<12	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
F28T5																	
1	28	PS	120	52112	EP228PS/MV/MC	0.29	31	0.98	1.05	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
	28	PS	277	52112	EP228PS/MV/MC	0.12	31	0.98	1.05	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
2	28	PS	120	52112	EP228PS/MV/MC	0.53	62	0.98	1.00	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
	28	PS	277	52112	EP228PS/MV/MC	0.23	61	0.98	1.00	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.10"
F35T5																	
1	35	PS	120	52112	EP228PS/MV/MC	0.34	40	0.98	1.01	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
	35	PS	277	52112	EP228PS/MV/MC	0.15	40	0.98	1.01	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
F39T5/HO																	
1	39	PS	120	50142	EP239HO/PS/MV	0.40	48	0.98	1.15	<12	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	39	PS	277	50142	EP239HO/PS/MV	0.18	48	0.98	1.15	<12	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
2	39	PS	120	50142	EP239HO/PS/MV	0.78	94	0.98	1.12	<10	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
	39	PS	277	50142	EP239HO/PS/MV	0.34	94	0.98	1.12	<10	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"

Case diagrams and wiring diagrams can be found on pages 175-177.

ELECTRONIC FLUORESCENT BALLASTS

T5

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F49T5/HO

1	49	PS	120	50144	EP254HO/PS/MV	0.50	59	0.99	1.00	<10	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	49	PS	277	50144	EP254HO/PS/MV	0.22	57	0.92	1.00	<10	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	49	PS	120	52114	EP254HO/PS/MV/MC	0.44	53	0.99	0.90	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
	49	PS	277	52114	EP254HO/PS/MV/MC	0.21	58	0.90	1.04	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
2	49	PS	120	50144	EP254HO/PS/MV	0.94	112	0.99	0.96	<10	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
	49	PS	277	50144	EP254HO/PS/MV	0.41	111	0.98	0.96	<10	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
	49	PS	120	52114	EP254HO/PS/MV/MC	0.88	106	0.98	0.99	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
	49	PS	277	52114	EP254HO/PS/MV/MC	0.38	105	0.97	0.98	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
3	49	PS	120	50186	EP454HO/PS/MV	0.88	106	0.98	0.97	<10	-20°F	2-22	J	16.90"	16.30"	1.80"	1.20"
	49	PS	277	50186	EP454HO/PS/MV	0.39	104	0.96	0.97	<10	-20°F	2-22	J	16.90"	16.30"	1.80"	1.20"
	49	PS	120	50186	EP454HO/PS/MV	1.34	162	0.98	0.97	<10	-20°F	3-10	J	16.90"	16.30"	1.80"	1.20"
	49	PS	277	50186	EP454HO/PS/MV	0.61	159	0.93	0.97	<10	-20°F	3-10	J	16.90"	16.30"	1.80"	1.20"
4	49	PS	120	50186	EP454HO/PS/MV	1.78	214	0.98	0.97	<10	-20°F	4-7	J	16.90"	16.30"	1.80"	1.20"
	49	PS	277	50186	EP454HO/PS/MV	0.78	209	0.96	0.97	<10	-20°F	4-7	J	16.90"	16.30"	1.80"	1.20"

F54T5/HO

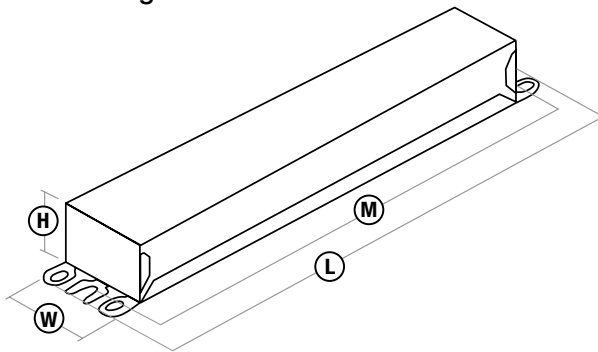
1	54	RS	120	50140	E154HO/RS/120	0.75	51	0.50	0.95	<140	0°F	1-7	G	9.10"	8.75"	0.95"	0.95"
	54	PS	120	50144	EP254HO/PS/MV	0.51	61	0.98	1.02	<10	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	54	PS	277	50144	EP254HO/PS/MV	0.23	61	0.98	1.02	<10	0°F	1-10	J	16.90"	16.00"	1.20"	1.00"
	54	PS	120	52114	EP254HO/PS/MV/MC	0.52	62	0.98	1.03	<10	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
	54	PS	277	52114	EP254HO/PS/MV/MC	0.23	62	0.90	1.03	<20	0°F	1-24	F	9.50"	8.90"	1.30"	1.00"
2	54	PS	120	52114	EP254HO/PS/MV/MC	1.00	120	0.98	1.00	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
	54	PS	277	52114	EP254HO/PS/MV/MC	0.43	117	0.97	1.00	<10	0°F	2-9	F	9.50"	8.90"	1.30"	1.00"
	54	PS	120	50144	EP254HO/PS/MV	0.98	117	0.98	1.00	<10	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
	54	PS	277	50144	EP254HO/PS/MV	0.42	117	0.98	1.00	<10	0°F	2-8	J	16.90"	16.00"	1.20"	1.00"
	54	PS	120	50186	EP454HO/PS/MV	1.00	120	0.98	1.00	<10	-20°F	2-22	J	16.75"	16.30"	1.80"	1.20"
3	54	PS	277	50186	EP454HO/PS/MV	0.43	117	0.98	1.00	<10	-20°F	2-22	J	16.75"	16.30"	1.80"	1.20"
	54	PS	120	50186	EP454HO/PS/MV	1.50	176	0.98	1.03	<10	-20°F	3-10	J	16.75"	16.30"	1.80"	1.20"
	54	PS	277	50186	EP454HO/PS/MV	0.65	173	0.92	1.03	<10	-20°F	3-10	J	16.75"	16.30"	1.80"	1.20"
	54	PS	120	50186	EP454HO/PS/MV	2.00	231	0.98	1.00	<10	-20°F	4-7	J	16.75"	16.30"	1.80"	1.20"
	54	PS	277	50186	EP454HO/PS/MV	0.86	228	0.98	1.00	<10	-20°F	4-7	J	16.75"	16.30"	1.80"	1.20"

Case diagrams and wiring diagrams can be found on pages 175-177.

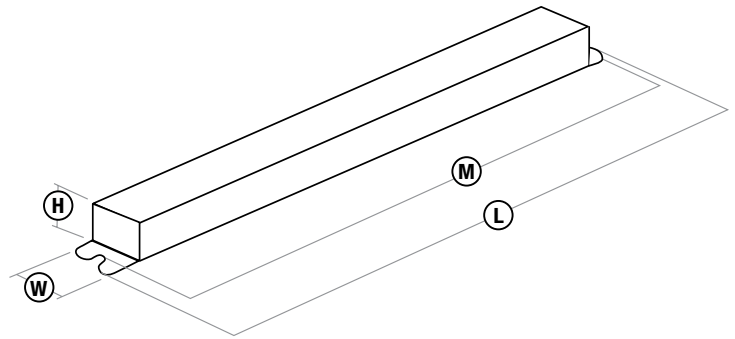
ELECTRONIC FLUORESCENT BALLASTS

T5

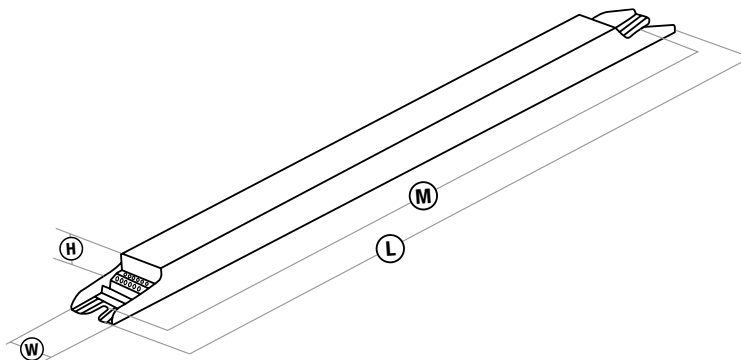
Case Diagrams



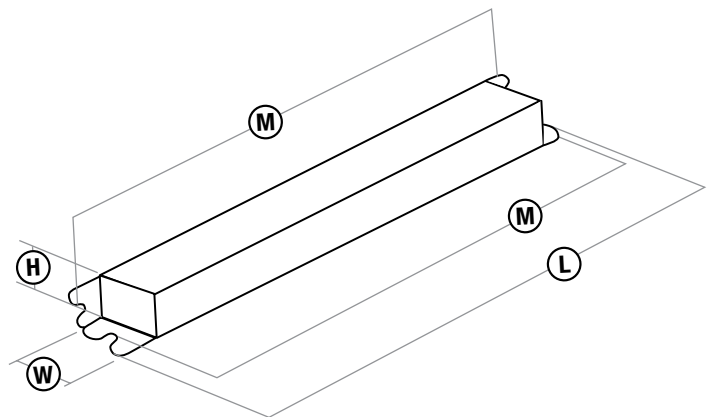
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G



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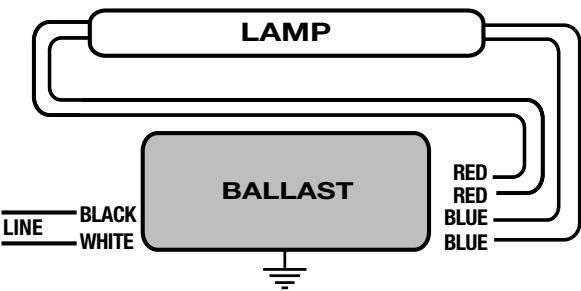


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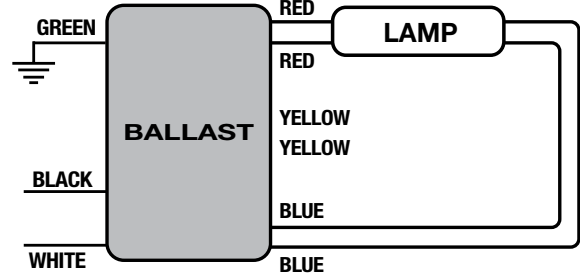
ELECTRONIC FLUORESCENT BALLASTS

T5

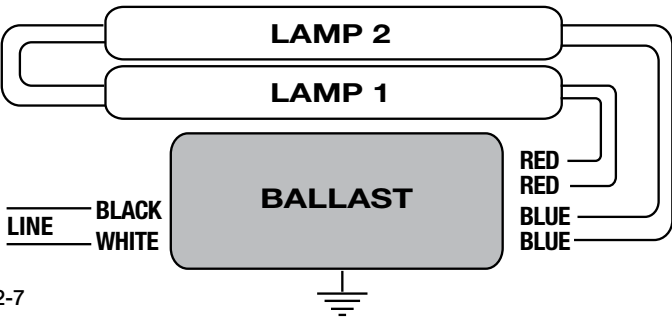
Wiring Diagrams



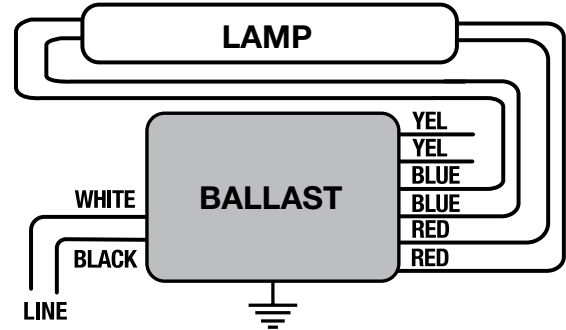
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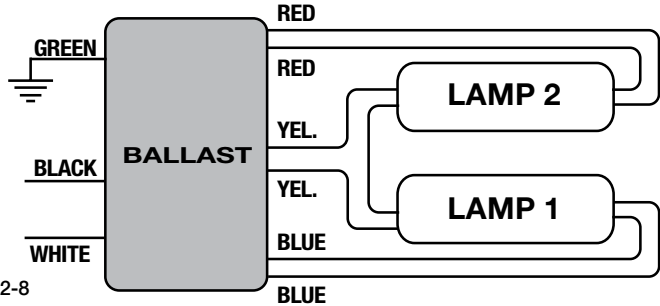
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2-7



1-24

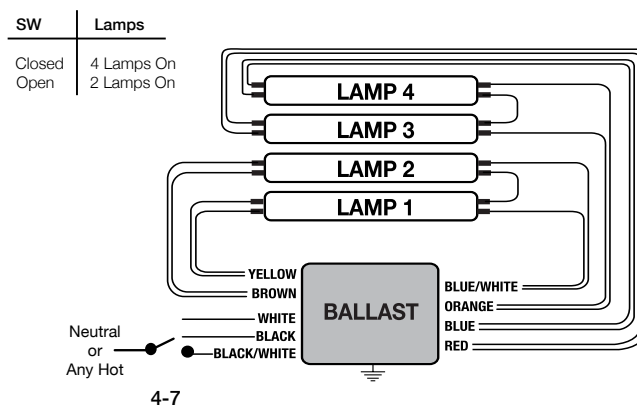
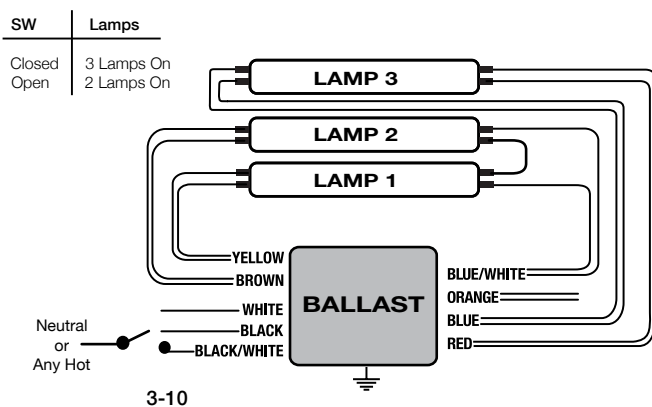
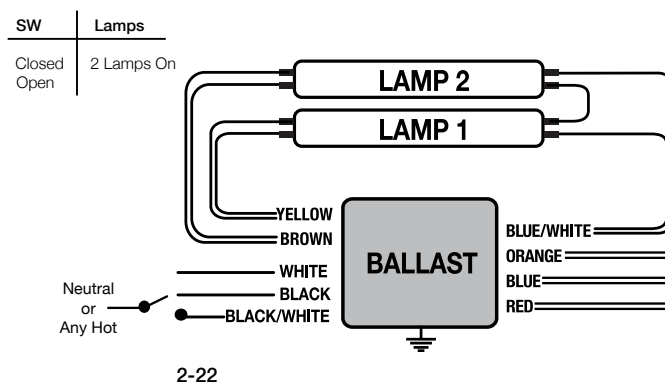
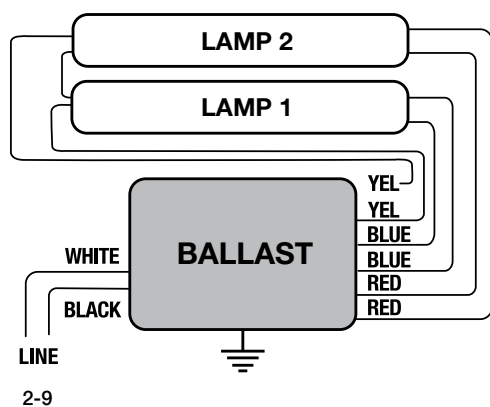


2-8

ELECTRONIC FLUORESCENT BALLASTS

T5

Wiring Diagrams



ELECTRONIC FLUORESCENT BALLASTS

T5 Circline

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

FC22T5

1	22	PS	120	50142	EP239HO/PS/MV	0.27	33	0.98	1.12	<15	0°F	1-13	J	16.90"	16.00"	1.20"	1.00"
	22	PS	277	50142	EP239HO/PS/MV	0.12	33	0.95	1.12	<15	0°F	1-13	J	16.90"	16.00"	1.20"	1.00"
	22	PS	120	52108	EP2CF42PS/MV/DC/K	0.27	31	0.93	1.20	<15	0°F	1-13	L	5.00"	4.63"	3.00"	1.38"
	22	PS	277	52108	EP2CF42PS/MV/DC/K	0.13	31	0.93	1.20	<15	0°F	1-13	L	5.00"	4.63"	3.00"	1.38"
2	22	PS	120	50142	EP239HO/PS/MV	0.52	63	0.99	1.10	<10	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	22	PS	277	50142	EP239HO/PS/MV	0.23	63	0.99	1.10	<10	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	22	PS	120	52108	EP2CF42PS/MV/DC/K	0.49	59	0.97	1.10	<12	0°F	2-13	L	5.00"	4.63"	3.00"	1.38"
	22	PS	277	52108	EP2CF42PS/MV/DC/K	0.22	52	0.97	1.10	<12	0°F	2-13	L	5.00"	4.63"	3.00"	1.38"

FC22T5 + FC40T5

2	22+40	PS	120	50142	*EP239HO/PS/MV	0.58	68	0.98	1.00	<12	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	22+40	PS	277	50142	*EP239HO/PS/MV	0.25	68	0.98	1.00	<12	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	22+40	PS	120	52108	*EP2CF42PS/MV/DC/K	0.55	67	0.99	0.90	<10	0°F	2-13	L	5.00"	4.63"	3.00"	1.38"
	22+40	PS	277	52108	*EP2CF42PS/MV/DC/K	0.25	67	0.98	0.90	<10	0°F	2-13	L	5.00"	4.63"	3.00"	1.38"

FC40T5

1	40	PS	120	50142	EP239HO/PS/MV	0.40	48	0.98	0.92	<12	0°F	1-13	J	16.90"	16.00"	1.20"	1.00"
	40	PS	277	50142	EP239HO/PS/MV	0.18	48	0.98	0.92	<12	0°F	1-13	J	16.90"	16.00"	1.20"	1.00"
	40	PS	120	52106	EP2CF26PS/MV/DC/K	0.36	42	0.99	1.00	<12	0°F	1-13	L	5.00"	4.63"	2.40"	1.00"
	40	PS	277	52106	EP2CF26PS/MV/DC/K	0.16	42	0.99	1.00	<12	0°F	1-13	L	5.00"	4.63"	2.40"	1.00"
	40	PS	120	52108	EP2CF42PS/MV/DC/K	0.37	45	0.99	1.00	<15	0°F	1-13	L	5.00"	4.63"	3.00"	1.38"
	40	PS	277	52108	EP2CF42PS/MV/DC/K	0.17	45	0.99	1.00	<15	0°F	1-13	L	5.00"	4.63"	3.00"	1.38"
2	40	PS	120	50142	EP239HO/PS/MV	0.77	92	0.98	0.90	<12	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	40	PS	277	50142	EP239HO/PS/MV	0.33	92	0.98	0.90	<12	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	40	PS	120	52108	EP2CF42PS/MV/DC/K	0.69	82	0.99	0.95	<12	0°F	2-13	L	5.00"	4.63"	3.00"	1.38"
	40	PS	277	52108	EP2CF42PS/MV/DC/K	0.30	82	0.99	0.95	<12	0°F	2-13	L	5.00"	4.63"	3.00"	1.38"

FC55T5/HO

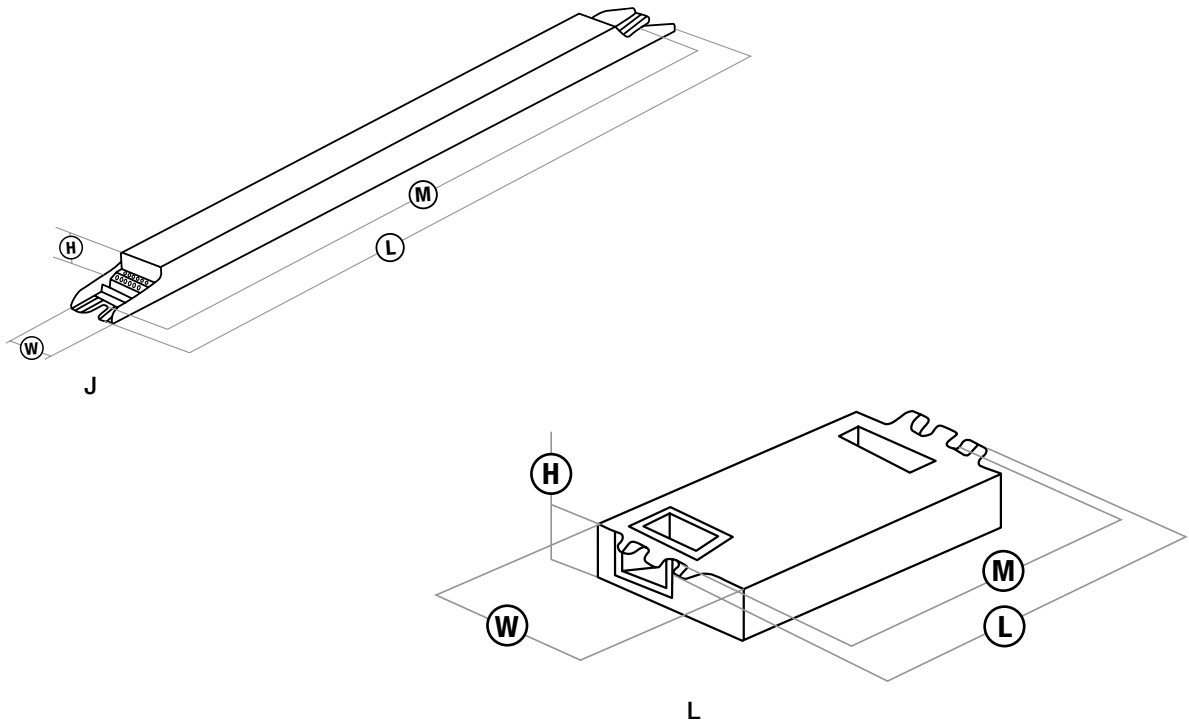
1	55	PS	120	50144	EP254HO/PS/MV	0.46	55	0.96	0.81	<15	0°F	1-13	J	16.90"	16.00"	1.20"	1.00"
	55	PS	277	50144	EP254HO/PS/MV	0.21	55	0.96	0.81	<15	0°F	1-13	J	16.90"	16.00"	1.20"	1.00"
2	55	PS	120	50144	EP254HO/PS/MV	0.89	106	0.98	0.85	<10	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"
	55	PS	277	50144	EP254HO/PS/MV	0.38	103	0.98	0.85	<10	0°F	2-13	J	16.90"	16.00"	1.20"	1.00"

*Ballast operates two different lamps together.
Case diagrams and wiring diagrams can be found on page 179.

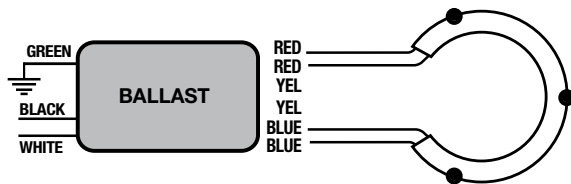
ELECTRONIC FLUORESCENT BALLASTS

T5 Circline

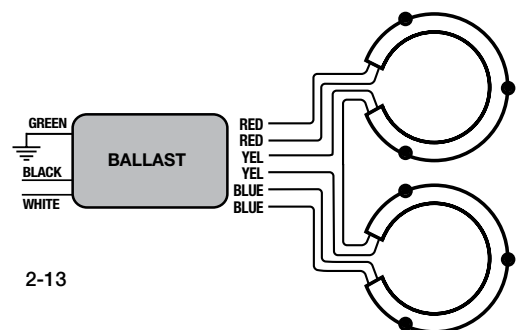
Case Diagrams



Wiring Diagrams



1-13



2-13

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F14T8																	
1	14	RS	120	50108	ⓈE120RS/120	0.24	15.5	0.54	1.00	<150	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
2	14	RS	120	50110	E220RS/120	0.44	29	0.54	0.88	<130	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"
F15T8																	
1	15	RS	120	50108	ⓈE120RS/120	0.25	16	0.55	1.00	<140	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
2	15	RS	120	50110	E220RS/120	0.49	32	0.56	1.00	<130	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"
F17T8, FB16																	
1	17	RS	120	50108	ⓈE120RS/120	0.27	18.5	0.56	1.00	<140	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
	17	IS	120	50118	E232IS/120/R/MC	0.35	20	0.45	1.05	<150	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50112	EP132IS/MV/MC	0.15	17	0.99	0.91	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.00"
	17	IS	277	50112	EP132IS/MV/MC	0.07	17	0.95	0.91	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.00"
	17	IS	120	50115	EP232IS/H/MV/HE	0.22	25	0.95	1.42	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50115	EP232IS/H/MV/HE	0.11	25	0.95	1.42	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50119	EP232IS/L/MV/HE	0.14	17	0.98	0.96	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50119	EP232IS/L/MV/HE	0.08	16	0.80	0.96	<20	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50123	EP232IS/MV/HE	0.16	21	0.98	1.10	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50123	EP232IS/MV/HE	0.09	21	0.95	1.10	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50116	EP232IS/MV/MC	0.18	22	0.98	1.10	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50116	EP232IS/MV/MC	0.08	21	0.95	1.10	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	17	PS	120	50180	EP232PS/MV/HE	0.20	23	0.98	1.03	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	17	PS	277	50180	EP232PS/MV/HE	0.09	24	0.93	1.03	<12	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	17	PS	120	50178	EP232PS/L/MV/HE	0.28	33	0.99	0.86	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	17	PS	277	50178	EP232PS/L/MV/HE	0.12	33	0.98	0.86	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
2	17	RS	120	50110	E220RS/120	0.54	36	0.58	1.00	<130	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"
	17	IS	120	50118	E232IS/120/R/MC	0.52	31	0.52	0.86	<160	0°F	2-17	F	9.50"	8.90"	1.30"	1.00"
	17	IS	120	50176	EP232IS/120/MC	0.31	33	0.90	0.86	<35	0°F	2-17	F	9.50"	8.90"	1.30"	1.00"
	17	IS	120	50115	EP232IS/H/MV/HE	0.33	39	0.98	1.23	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50115	EP232IS/H/MV/HE	0.15	39	0.96	1.23	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50119	EP232IS/L/MV/HE	0.21	25	0.98	0.80	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50119	EP232IS/L/MV/HE	0.09	23	0.85	0.80	<20	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50123	EP232IS/MV/HE	0.25	28	0.98	0.91	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50123	EP232IS/MV/HE	0.11	28	0.97	0.91	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50116	EP232IS/MV/MC	0.26	31	0.98	0.91	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50116	EP232IS/MV/MC	0.12	31	0.97	0.91	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	17	PS	120	50180	EP232PS/MV/HE	0.30	34	0.98	0.90	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	17	PS	277	50180	EP232PS/MV/HE	0.13	35	0.96	0.90	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	17	PS	120	50178	EP232PS/L/MV/HE	0.44	52	0.99	0.77	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	17	PS	277	50178	EP232PS/L/MV/HE	0.19	52	0.98	0.77	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"

Ⓢ Item will be discontinued when inventory is depleted.
Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F17T8, FB16 continued

3	17	IS	120	50121	EP332IS/H/MV/HE	0.49	58	0.99	1.23	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50121	EP332IS/H/MV/HE	0.22	57	0.96	1.23	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50168	EP332IS/L/MV/HE	0.37	43	0.98	0.86	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50168	EP332IS/L/MV/HE	0.16	43	0.95	0.86	<15	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50170	EP332IS/MV/HE	0.38	45	0.98	0.92	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50170	EP332IS/MV/HE	0.17	45	0.96	0.92	<15	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50122	EP332IS/MV/MC	0.38	45	0.98	0.90	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50122	EP332IS/MV/MC	0.17	45	0.96	0.90	<15	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	17	PS	120	50184	EP432PS/MV/HE	0.45	53	0.98	0.94	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	17	PS	277	50184	EP432PS/MV/HE	0.21	53	0.95	0.94	<15	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	17	PS	120	50182	EP432PS/L/MV/HE	0.40	48	0.99	0.81	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	17	PS	277	50182	EP432PS/L/MV/HE	0.18	49	0.96	0.82	<12	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
4	17	IS	120	50158	E432IS/120/R/MC	0.97	67	0.50	0.95	<175	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50124	EP432IS/120/MC	0.51	61	0.98	0.96	<20	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50172	EP432IS/L/MV/HE	0.46	54	0.98	0.79	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.18"
	17	IS	277	50172	EP432IS/L/MV/HE	0.19	52	0.98	0.79	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.18"
	17	IS	120	50174	EP432IS/MV/HE	0.49	59	0.98	0.93	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50174	EP432IS/MV/HE	0.22	58	0.98	0.93	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	17	IS	120	50126	EP432IS/MV/MC	0.49	59	0.98	0.90	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	17	IS	277	50126	EP432IS/MV/MC	0.22	58	0.98	0.90	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	17	PS	120	50184	EP432PS/MV/HE	0.52	63	0.98	0.87	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	17	PS	277	50184	EP432PS/MV/HE	0.24	63	0.97	0.89	<12	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	17	PS	120	50182	EP432PS/L/MV/HE	0.46	55	0.99	0.73	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	17	PS	277	50182	EP432PS/L/MV/HE	0.21	56	0.97	0.74	<12	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"

F18T8 24"

1	18	RS	120	50108	E120RS/120	0.26	17.5	0.55	0.95	<140	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
2	18	RS	120	50110	E220RS/120	0.50	34	0.57	0.92	<150	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"

F20T8

1	20	RS	120	50108	E120RS/120	0.26	18	0.56	0.90	<130	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
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Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F25T8/ES (F32T8 25W)																	
1	25	IS	120	50119	EP232IS/L/MV/HE	0.21	25	0.98	0.93	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50119	EP232IS/L/MV/HE	0.10	23	0.80	0.93	<20	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50123	EP232IS/MV/HE	0.24	29	0.98	1.08	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50123	EP232IS/MV/HE	0.11	29	0.97	1.08	<15	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	PS	120	50180	EP232PS/MV/HE	0.27	33	0.99	1.05	<10	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50180	EP232PS/MV/HE	0.12	33	0.95	1.05	<12	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	25	PS	120	50178	EP232PS/L/MV/HE	0.24	28	0.99	0.92	<10	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50178	EP232PS/L/MV/HE	0.11	29	0.97	0.92	<12	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
2	25	IS	120	50119	EP232IS/L/MV/HE	0.31	37	0.98	0.79	<10	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50119	EP232IS/L/MV/HE	0.13	35	0.95	0.79	<15	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50123	EP232IS/MV/HE	0.39	46	0.98	0.89	<10	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50123	EP232IS/MV/HE	0.17	45	0.97	0.89	<15	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	PS	120	50178	EP232PS/L/MV/HE	0.37	44	0.99	0.79	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50178	EP232PS/L/MV/HE	0.16	44	0.98	0.79	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	PS	120	50180	EP232PS/MV/HE	0.42	50	0.99	0.92	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50180	EP232PS/MV/HE	0.19	50	0.97	0.92	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	IS	120	50168	EP332IS/L/MV/HE	0.41	48	0.98	0.95	<10	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50168	EP332IS/L/MV/HE	0.18	47	0.95	0.92	<15	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50170	EP332IS/MV/HE	0.43	51	0.98	1.00	<10	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50170	EP332IS/MV/HE	0.19	51	0.97	1.00	<15	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
3	25	IS	120	50168	EP332IS/L/MV/HE	0.53	63	0.98	0.85	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50168	EP332IS/L/MV/HE	0.23	61	0.95	0.85	<15	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50170	EP332IS/MV/HE	0.56	68	0.98	0.90	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50170	EP332IS/MV/HE	0.25	68	0.97	0.90	<15	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50172	EP432IS/L/MV/HE	0.57	68	0.98	0.84	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.18"
	25	IS	277	50172	EP432IS/L/MV/HE	0.25	68	0.95	0.84	<15	60°F	3-9	F	9.50"	8.90"	1.30"	1.18"
	25	IS	120	50174	EP432IS/MV/HE	0.62	74	0.98	0.96	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.18"
	25	IS	277	50174	EP432IS/MV/HE	0.27	73	0.98	0.96	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.18"
	25	PS	120	50184	EP432PS/MV/HE	0.64	76	0.99	0.94	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50184	EP432PS/MV/HE	0.28	76	0.98	0.94	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	PS	120	50182	EP432PS/L/MV/HE	0.56	67	0.99	0.81	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50182	EP432PS/L/MV/HE	0.25	68	0.98	0.82	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"

Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F25T8/ES (F32T8 25W) continued

4	25	IS	120	50172	EP432IS/L/MV/HE	0.69	82	0.98	0.78	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.18"
	25	IS	277	50172	EP432IS/L/MV/HE	0.30	81	0.98	0.78	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.18"
	25	IS	120	50174	EP432IS/MV/HE	0.74	88	0.98	0.88	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.18"
	25	IS	277	50174	EP432IS/MV/HE	0.32	88	0.98	0.88	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.18"
	25	PS	120	50184	EP432PS/MV/HE	0.77	93	0.99	0.89	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50184	EP432PS/MV/HE	0.34	93	0.98	0.89	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	25	PS	120	50182	EP432PS/L/MV/HE	0.67	80	0.99	0.75	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50182	EP432PS/L/MV/HE	0.30	81	0.98	0.76	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"

F25T8, FB24

1	25	IS	120	50118	E232IS/120/R/MC	0.46	27	0.50	1.01	<170	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50112	EP132IS/MV/MC	0.21	24	0.99	0.92	<10	0°F	1-23	F	9.50"	8.90"	1.30"	1.00"
	25	IS	277	50112	EP132IS/MV/MC	0.10	24	0.97	0.92	<10	0°F	1-23	F	9.50"	8.90"	1.30"	1.00"
	25	IS	120	50115	EP232IS/H/MV/HE	0.28	33	0.98	1.40	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50115	EP232IS/H/MV/HE	0.13	33	0.96	1.40	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50119	EP232IS/L/MV/HE	0.20	24	0.98	0.95	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50119	EP232IS/L/MV/HE	0.09	22	0.80	0.95	<20	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50123	EP232IS/MV/HE	0.23	26	0.98	1.08	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50123	EP232IS/MV/HE	0.10	26	0.96	1.08	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50116	EP232IS/MV/MC	0.24	29	0.98	1.08	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50116	EP232IS/MV/MC	0.11	28	0.96	1.08	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	25	PS	120	50180	EP232PS/MV/HE	0.26	31	0.98	1.01	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50180	EP232PS/MV/HE	0.12	32	0.95	1.01	<12	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	25	PS	120	50178	EP232PS/L/MV/HE	0.23	27	0.99	0.88	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50178	EP232PS/L/MV/HE	0.10	28	0.97	0.88	<12	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
2	25	IS	120	50118	E232IS/120/R/MC	0.65	43	0.54	0.84	<140	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50176	EP232IS/120/MC	0.41	47	0.96	0.85	<30	0°F	2-17	F	9.50"	8.90"	1.30"	1.00"
	25	IS	120	50115	EP232IS/H/MV/ME	0.45	54	0.98	1.20	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50115	EP232IS/H/MV/ME	0.20	54	0.97	1.20	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50119	EP232IS/L/MV/HE	0.31	37	0.98	0.79	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50119	EP232IS/L/MV/HE	0.13	35	0.95	0.79	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50123	EP232IS/MV/HE	0.36	42	0.98	0.89	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50123	EP232IS/MV/HE	0.16	41	0.98	0.89	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50116	EP232IS/MV/MC	0.38	46	0.98	0.89	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50116	EP232IS/MV/MC	0.17	46	0.97	0.89	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	25	PS	120	50180	EP232PS/MV/HE	0.40	47	0.99	0.83	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"

Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F25T8, FB24 continued

2	25	PS	277	50180	EP232PS/MV/HE	0.18	47	0.95	0.88	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	PS	120	50178	EP232PS/L/MV/HE	0.35	41	0.99	0.74	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	PS	277	50178	EP232PS/L/MV/HE	0.15	41	0.98	0.74	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	25	IS	120	50121	EP332IS/H/MV/HE	0.55	65	0.98	1.28	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50121	EP332IS/H/MV/HE	0.25	65	0.97	1.28	<15	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50170	EP332IS/MV/HE	0.42	50	0.98	1.00	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50170	EP332IS/MV/HE	0.18	50	0.96	1.00	<15	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50122	EP332IS/MV/MC	0.42	50	0.98	0.98	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50122	EP332IS/MV/MC	0.18	50	0.96	0.98	<15	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
3	25	IS	120	50121	EP332IS/H/MV/HE	0.39	81	0.98	1.20	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50121	EP332IS/H/MV/HE	0.30	81	0.98	1.20	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50168	EP332IS/L/MV/HE	0.51	60	0.98	0.82	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50168	EP332IS/L/MV/HE	0.22	58	0.95	0.82	<15	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50170	EP332IS/MV/HE	0.56	68	0.98	0.90	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50170	EP332IS/MV/HE	0.24	68	0.97	0.90	<15	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50122	EP332IS/MV/MC	0.56	68	0.98	0.88	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50122	EP332IS/MV/MC	0.24	66	0.97	0.88	<15	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50158	E432IS/120/R/MC	1.12	77	0.50	1.00	<175	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50124	EP432IS/120/MC	0.62	74	0.98	1.04	<20	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50172	EP432IS/L/MV/HE	0.53	62	0.98	0.84	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50172	EP432IS/L/MV/HE	0.23	61	0.95	0.84	<15	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
4	25	PS	120	50184	EP432PS/MV/HE	0.62	74	0.98	0.90	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50184	EP432PS/MV/HE	0.28	74	0.97	0.90	<12	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	PS	120	50182	EP432PS/L/MV/HE	0.55	65	0.99	0.80	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50182	EP432PS/L/MV/HE	0.24	66	0.98	0.80	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	25	IS	120	50158	E432IS/R/120/MC	1.25	86	0.50	0.86	<170	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50124	EP432IS/120/MC	0.74	89	0.98	0.94	<20	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50172	EP432IS/L/MV/HE	0.64	76	0.98	0.78	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50172	EP432IS/L/MV/HE	0.27	74	0.98	0.78	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50174	EP432IS/MV/HE	0.73	87	0.98	0.89	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50174	EP432IS/MV/HE	0.32	85	0.98	0.89	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	120	50126	EP432IS/MV/MC	0.72	87	0.98	0.86	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	IS	277	50126	EP432IS/MV/MC	0.32	85	0.98	0.86	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	25	PS	120	50184	EP432PS/MV/HE	0.74	88	0.99	0.84	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50184	EP432PS/MV/HE	0.33	88	0.98	0.85	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	25	PS	120	50182	EP432PS/L/MV/HE	0.65	77	0.99	0.73	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	25	PS	277	50182	EP432PS/L/MV/HE	0.29	78	0.98	0.73	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"

Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F28T8

1	28	IS	120	50115	EP232IS/H/MV/HE	0.33	39	0.98	1.38	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50115	EP232IS/H/MV/HE	0.15	39	0.97	1.38	<15	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50119	EP232IS/L/MV/HE	0.22	26	0.98	0.93	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50119	EP232IS/L/MV/HE	0.10	24	0.85	0.93	<20	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50123	EP232IS/MV/HE	0.25	30	0.98	1.08	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50123	EP232IS/MV/HE	0.11	29	0.97	1.08	<15	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50116	EP232IS/MV/MC	0.26	31	0.98	1.08	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50116	EP232IS/MV/MC	0.12	31	0.97	1.08	<10	60°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	28	PS	120	50180	EP232PS/MV/HE	0.29	35	0.99	1.06	<10	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	28	PS	277	50180	EP232PS/MV/HE	0.13	35	0.96	1.06	<10	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	28	PS	120	50178	EP232PS/L/MV/HE	0.25	30	0.99	0.86	<10	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	28	PS	277	50178	EP232PS/L/MV/HE	0.11	30	0.97	0.86	<12	60°F	1-11	F	9.50"	8.90"	1.38"	1.18"
2	28	IS	120	50115	EP232IS/H/MV/HE	0.54	64	0.98	1.18	<10	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50115	EP232IS/H/MV/HE	0.24	63	0.98	1.18	<15	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50119	EP232IS/L/MV/HE	0.35	41	0.98	0.78	<10	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50119	EP232IS/L/MV/HE	0.15	41	0.97	0.78	<15	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50123	EP232IS/MV/HE	0.41	49	0.98	0.89	<10	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50123	EP232IS/MV/HE	0.18	47	0.97	0.89	<15	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50116	EP232IS/MV/MC	0.41	49	0.98	0.89	<10	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50116	EP232IS/MV/MC	0.18	48	0.97	0.89	<15	60°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	28	PS	120	50180	EP232PS/MV/HE	0.45	54	0.99	0.90	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	28	PS	277	50180	EP232PS/MV/HE	0.20	54	0.98	0.90	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	28	PS	120	50178	EP232PS/L/MV/HE	0.39	46	0.99	0.75	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	28	PS	277	50178	EP232PS/L/MV/HE	0.17	47	0.98	0.75	<10	60°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	28	IS	120	50121	EP332IS/H/MV/HE	0.59	70	0.98	1.27	<10	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50121	EP332IS/H/MV/HE	0.26	69	0.97	1.27	<15	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50168	EP332IS/L/MV/HE	0.42	49	0.98	0.92	<10	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50168	EP332IS/L/MV/HE	0.19	48	0.95	0.92	<15	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50170	EP332IS/MV/HE	0.45	54	0.98	0.99	<10	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50170	EP332IS/MV/HE	0.20	53	0.97	0.99	<15	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50122	EP332IS/MV/MC	0.45	54	0.98	0.97	<10	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50122	EP332IS/MV/MC	0.20	53	0.97	0.97	<15	60°F	2-11	F	9.50"	8.90"	1.30"	1.10"

Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F28T8 continued

3	28	IS	120	50121	EP332IS/H/MV/HE	0.78	93	0.98	1.18	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50121	EP332IS/H/MV/HE	0.34	92	0.98	1.18	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50168	EP332IS/L/MV/HE	0.55	64	0.98	0.81	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50168	EP332IS/L/MV/HE	0.24	63	0.95	0.81	<15	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50170	EP332IS/MV/HE	0.60	72	0.98	0.88	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50170	EP332IS/MV/HE	0.26	70	0.98	0.88	<15	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50122	EP332IS/MV/MC	0.60	72	0.98	0.86	<10	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50122	EP332IS/MV/MC	0.26	70	0.98	0.86	<15	60°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50172	EP432IS/L/MV/HE	0.59	70	0.98	0.82	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50172	EP432IS/L/MV/HE	0.26	70	0.97	0.82	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50174	EP432IS/MV/HE	0.65	77	0.96	0.98	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50174	EP432IS/MV/HE	0.29	77	0.96	0.98	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50126	EP432IS/MV/MC	0.65	77	0.98	0.92	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50126	EP432IS/MV/MC	0.29	77	0.97	0.92	<10	60°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	28	PS	120	50184	EP432PS/MV/HE	0.70	83	0.99	0.92	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	28	PS	277	50184	EP432PS/MV/HE	0.31	83	0.97	0.93	<12	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
4	28	PS	120	50182	ⓈEP432PS/L/MV/HE	0.61	72	0.99	0.80	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	28	PS	277	50182	ⓈEP432PS/L/MV/HE	0.27	73	0.98	0.82	<10	60°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	28	IS	120	50172	EP432IS/L/MV/HE	0.71	84	0.98	0.77	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50172	EP432IS/L/MV/HE	0.31	84	0.98	0.77	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50174	EP432IS/MV/HE	0.79	94	0.98	0.88	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50174	EP432IS/MV/HE	0.35	94	0.98	0.88	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	28	IS	120	50126	EP432IS/MV/MC	0.79	94	0.98	0.85	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	28	IS	277	50126	EP432IS/MV/MC	0.35	94	0.98	0.85	<10	60°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	28	PS	120	50184	EP432PS/MV/HE	0.84	100	0.99	0.85	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	28	PS	277	50184	EP432PS/MV/HE	0.37	100	0.98	0.86	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	28	PS	120	50182	ⓈEP432PS/L/MV/HE	0.73	87	0.99	0.73	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	28	PS	277	50182	ⓈEP432PS/L/MV/HE	0.32	88	0.98	0.75	<10	60°F	4-5	F	9.50"	8.90"	1.65"	1.18"

Ⓢ Item will be discontinued when inventory is depleted.
Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F32T8, FB32, FB31																	
1	32	IS	120	50118	E232IS/120/R/MC	0.55	34	0.52	1.03	<155	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50112	EP132IS/MV/MC	0.26	31	0.99	0.88	<10	0°F	1-23	F	9.50"	8.90"	1.30"	1.00"
	32	IS	277	50112	EP132IS/MV/MC	0.12	31	0.98	0.88	<10	0°F	1-23	F	9.50"	8.90"	1.30"	1.00"
	32	IS	120	50176	EP232IS/120/MC	0.34	38	0.94	1.01	<32	0°F	1-3	F	9.50"	8.90"	1.30"	1.00"
	32	IS	120	50115	EP232IS/H/MV/HE	0.37	45	0.98	1.38	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50115	EP232IS/H/MV/HE	0.17	45	0.97	1.38	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50119	EP232IS/L/MV/HE	0.26	31	0.98	0.93	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50119	EP232IS/L/MV/HE	0.12	30	0.95	0.93	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50123	EP232IS/MV/HE	0.29	35	0.98	1.08	<10	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50123	EP232IS/MV/HE	0.13	34	0.97	1.08	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50116	EP232IS/MV/MC	0.32	39	0.98	1.08	<12	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50116	EP232IS/MV/MC	0.14	38	0.97	1.08	<15	0°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	32	PS	120	50180	EP232PS/MV/HE	0.31	37	0.98	0.99	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	32	PS	277	50180	EP232PS/MV/HE	0.14	37	0.93	0.99	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	32	PS	120	50178	EP232PS/L/MV/HE	0.28	33	0.99	0.86	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	32	PS	277	50178	EP232PS/L/MV/HE	0.12	33	0.98	0.86	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
2	32	IS	120	50118	E232IS/120/R/MC	0.80	54	0.56	0.85	<130	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50176	EP232IS/120/MC	0.49	59	0.97	0.87	<30	0°F	2-17	F	9.50"	8.90"	1.30"	1.00"
	32	IS	120	50115	EP232IS/H/MV/HE	0.62	74	0.98	1.18	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50115	EP232IS/H/MV/HE	0.27	73	0.98	1.18	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50119	EP232IS/L/MV/HE	0.40	49	0.98	0.78	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50119	EP232IS/L/MV/HE	0.18	48	0.97	0.78	<15	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50123	EP232IS/MV/HE	0.46	56	0.98	0.89	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50123	EP232IS/MV/HE	0.20	55	0.97	0.89	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50116	EP232IS/MV/MC	0.50	59	0.98	0.89	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50116	EP232IS/MV/MC	0.21	57	0.98	0.89	<10	0°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	32	PS	120	50180	EP232PS/MV/HE	0.50	60	0.99	0.88	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	32	PS	277	50180	EP232PS/MV/HE	0.22	60	0.98	0.88	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	32	PS	120	50178	EP232PS/L/MV/HE	0.44	52	0.99	0.77	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	32	PS	277	50178	EP232PS/L/MV/HE	0.19	52	0.98	0.77	<10	0°F	2-24	F	9.50"	8.90"	1.38"	1.18"
	32	IS	120	50121	EP332IS/H/MV/HE	0.69	81	0.98	1.27	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50121	EP332IS/H/MV/HE	0.30	80	0.98	1.27	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50168	EP332IS/L/MV/HE	0.49	58	0.98	0.92	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50168	EP332IS/L/MV/HE	0.21	57	0.95	0.92	<15	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50170	EP332IS/MV/HE	0.53	63	0.98	0.99	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50170	EP332IS/MV/HE	0.24	63	0.97	0.99	<15	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50122	EP332IS/MV/MC	0.53	63	0.98	0.97	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50122	EP332IS/MV/MC	0.24	63	0.97	0.97	<15	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"

Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F32T8, FB32, FB31 continued

3	32	IS	120	50158	E432IS/R/120/MC	1.35	86	0.50	0.90	<170	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50121	EP332IS/H/MV/HE	0.91	108	0.98	1.18	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50121	EP332IS/H/MV/HE	0.39	106	0.98	1.18	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50168	EP332IS/L/MV/HE	0.64	76	0.98	0.78	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50168	EP332IS/L/MV/HE	0.27	74	0.98	0.78	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50170	EP332IS/MV/HE	0.71	84	0.98	0.88	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50170	EP332IS/MV/HE	0.31	83	0.98	0.88	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50122	EP332IS/MV/MC	0.71	84	0.98	0.86	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50122	EP332IS/MV/MC	0.31	83	0.98	0.86	<10	0°F	3-7	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50124	EP432IS/120/MC	0.79	94	0.98	1.00	<20	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50172	EP432IS/L/MV/HE	0.68	81	0.98	0.82	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50172	EP432IS/L/MV/HE	0.29	80	0.98	0.82	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50174	EP432IS/MV/HE	0.77	92	0.98	0.96	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50174	EP432IS/MV/HE	0.34	89	0.98	0.96	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50126	EP432IS/MV/MC	0.77	92	0.98	0.92	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50126	EP432IS/MV/MC	0.34	89	0.98	0.92	<10	0°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	32	PS	120	50184	EP432PS/MV/HE	0.79	95	0.99	0.92	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	32	PS	277	50184	EP432PS/MV/HE	0.35	95	0.98	0.93	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	32	PS	120	50182	ⓈEP432PS/L/MV/HE	0.66	78	0.99	0.78	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	32	PS	277	50182	ⓈEP432PS/L/MV/HE	0.29	78	0.98	0.79	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
4	32	IS	120	50158	E432IS/120/R/MC	1.62	103	0.50	0.82	<165	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50124	EP432IS/120/MC	0.93	110	0.98	0.88	<20	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50172	EP432IS/L/MV/HE	0.82	98	0.98	0.77	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50172	EP432IS/L/MV/HE	0.35	96	0.98	0.77	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50174	EP432IS/MV/HE	0.93	112	0.99	0.88	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50174	EP432IS/MV/HE	0.40	109	0.99	0.88	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	120	50126	EP432IS/MV/MC	0.93	112	0.98	0.85	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	IS	277	50126	EP432IS/MV/MC	0.40	108	0.98	0.85	<10	0°F	4-6	F	9.50"	8.90"	1.30"	1.10"
	32	PS	120	50184	EP432PS/MV/HE	0.95	114	0.99	0.86	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	32	PS	277	50184	EP432PS/MV/HE	0.42	114	0.98	0.86	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	32	PS	120	50182	ⓈEP432PS/L/MV/HE	0.82	97	0.99	0.74	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"
	32	PS	277	50182	ⓈEP432PS/L/MV/HE	0.35	97	0.99	0.74	<10	0°F	4-5	F	9.50"	8.90"	1.65"	1.18"

Ⓢ Item will be discontinued when inventory is depleted.
Case diagrams and wiring diagrams can be found on pages 190-192.

ELECTRONIC FLUORESCENT BALLASTS

T8

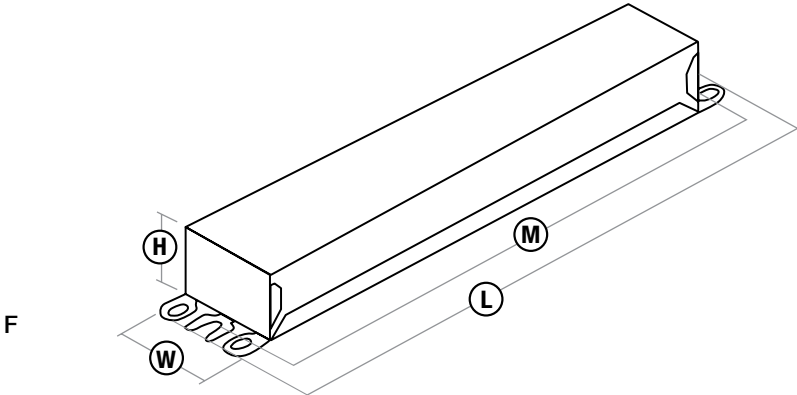
Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F40T8																	
1	40	IS	120	50176	EP232IS/120/MC	0.39	45	0.96	1.00	<30	32°F	1-3	F	9.50"	8.90"	1.30"	1.00"
	40	IS	120	50115	EP232IS/H/MV/HE	0.45	54	0.98	1.35	<10	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50115	EP232IS/H/MV/HE	0.20	54	0.97	1.35	<15	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50119	EP232IS/L/MV/HE	0.30	35	0.98	0.90	<10	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50119	EP232IS/L/MV/HE	0.13	35	0.95	0.90	<15	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50123	EP232IS/MV/HE	0.35	44	0.98	1.00	<10	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50123	EP232IS/MV/HE	0.16	43	0.97	1.00	<15	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50116	EP232IS/MV/MC	0.38	46	0.98	1.00	<10	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50116	EP232IS/MV/MC	0.16	45	0.97	1.00	<15	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	40	PS	120	50180	EP232PS/MV/HE	0.38	45	0.98	0.99	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	40	PS	277	50180	EP232PS/MV/HE	0.17	45	0.97	1.01	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
	40	PS	120	50178	EP232PS/L/MV/HE	0.32	38	0.99	0.82	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"
40	PS	277	50178	EP232PS/L/MV/HE	0.14	39	0.98	0.82	<10	0°F	1-11	F	9.50"	8.90"	1.38"	1.18"	
2	40	IS	120	50121	EP332IS/H/MV/HE	0.84	100	0.98	1.26	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50121	EP332IS/H/MV/HE	0.37	98	0.98	1.26	<10	0°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50168	EP332IS/L/MV/HE	0.60	71	0.98	0.87	<10	32°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50168	EP332IS/L/MV/HE	0.26	70	0.98	0.87	<15	32°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50170	EP332IS/MV/HE	0.65	78	0.98	0.95	<10	32°F	2-11	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50170	EP332IS/MV/HE	0.29	77	0.97	0.95	<15	32°F	2-11	F	9.50"	8.90"	1.30"	1.10"
3	40	IS	120	50124	EP432IS/120/MC	0.93	112	0.98	0.88	<20	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50172	EP432IS/L/MV/HE	0.82	98	0.98	0.82	<10	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50172	EP432IS/L/MV/HE	0.35	96	0.98	0.82	<10	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50174	EP432IS/MV/HE	0.95	114	0.98	0.96	<10	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50174	EP432IS/MV/HE	0.41	109	0.98	0.96	<10	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	IS	120	50126	EP432IS/MV/MC	0.95	114	0.98	0.92	<10	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	IS	277	50126	EP432IS/MV/MC	0.41	109	0.98	0.92	<10	32°F	3-9	F	9.50"	8.90"	1.30"	1.10"
	40	PS	120	50184	EP432PS/MV/HE	0.93	111	0.99	0.88	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	40	PS	277	50184	EP432PS/MV/HE	0.41	111	0.98	0.89	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
	40	PS	120	50182	⊗EP432PS/L/MV/HE	0.83	99	0.99	0.77	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"
40	PS	277	50182	⊗EP432PS/L/MV/HE	0.36	99	0.99	0.79	<10	0°F	3-8	F	9.50"	8.90"	1.65"	1.18"	
F96T8																	
1	59	IS	120	50136	EP259IS/MV	0.57	68	0.98	1.04	<10	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
	59	IS	277	50136	EP259IS/MV	0.25	67	0.98	1.04	<10	32°F	1-3	F	9.50"	8.90"	1.30"	1.10"
2	59	IS	120	50136	EP259IS/MV	0.92	108	0.98	0.83	<10	32°F	2-17	F	9.50"	8.90"	1.30"	1.10"
	59	IS	277	50136	EP259IS/MV	0.40	106	0.98	0.83	<10	32°F	2-17	F	9.50"	8.90"	1.30"	1.10"

⊗ Item will be discontinued when inventory is depleted.
Case diagrams and wiring diagrams can be found on pages 190-192.

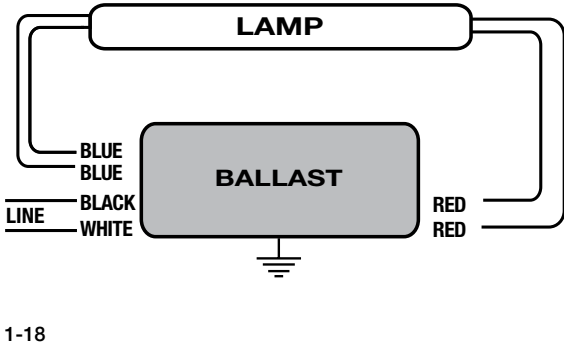
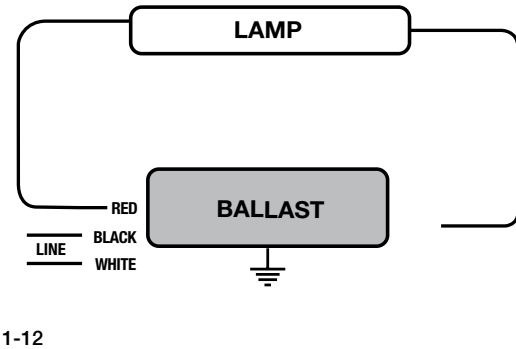
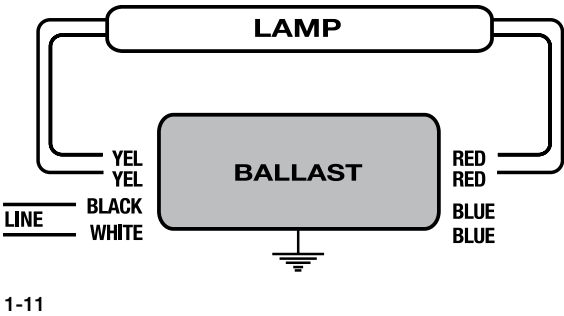
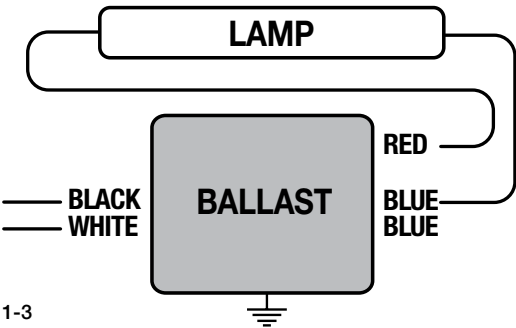
ELECTRONIC FLUORESCENT BALLASTS

T8

Case Diagram



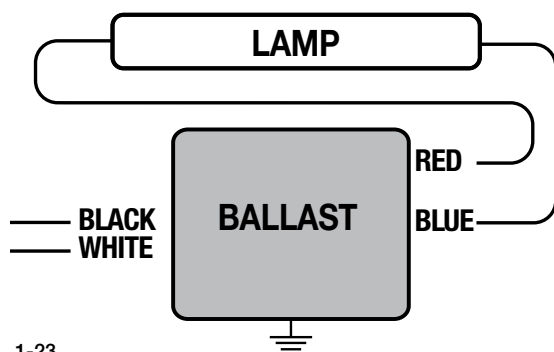
Wiring Diagrams



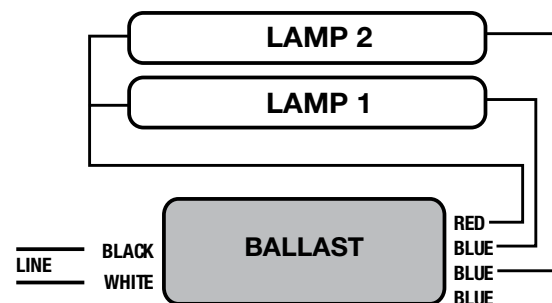
ELECTRONIC FLUORESCENT BALLASTS

T8

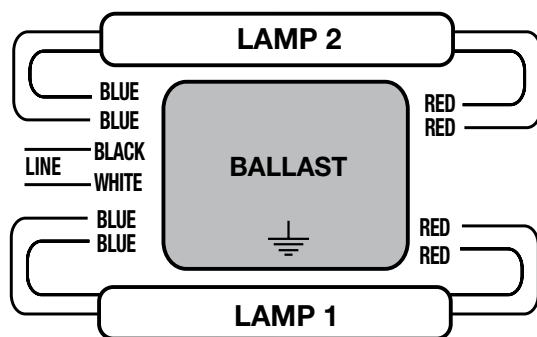
Wiring Diagrams



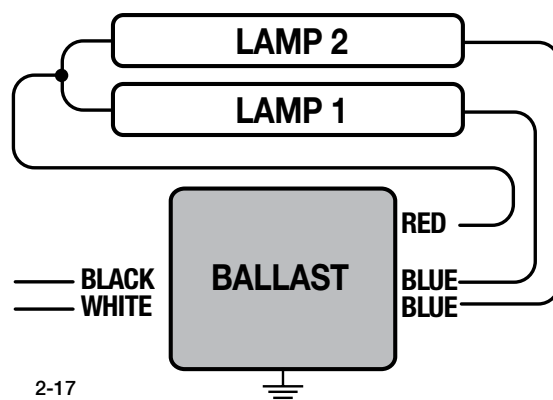
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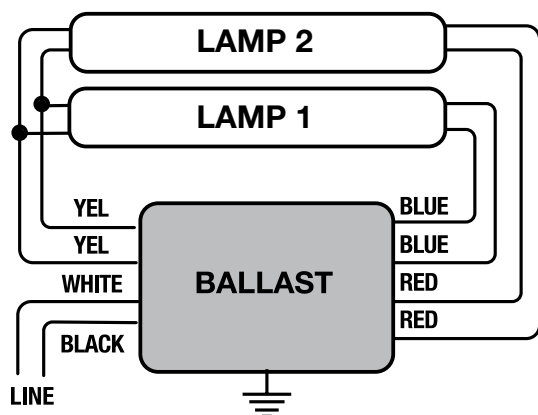
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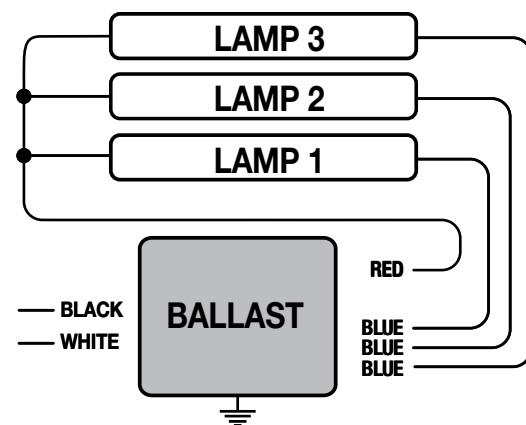
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2-17



2-24

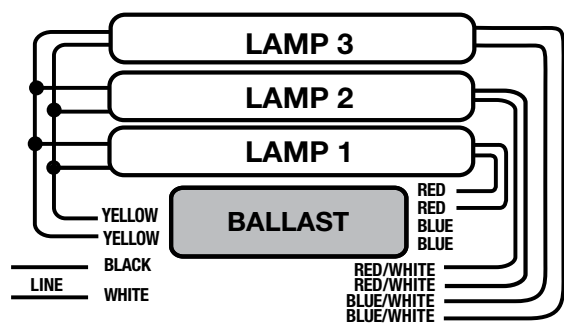


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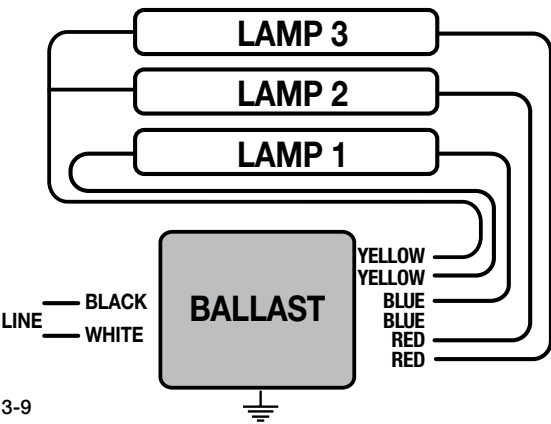
ELECTRONIC FLUORESCENT BALLASTS

T8

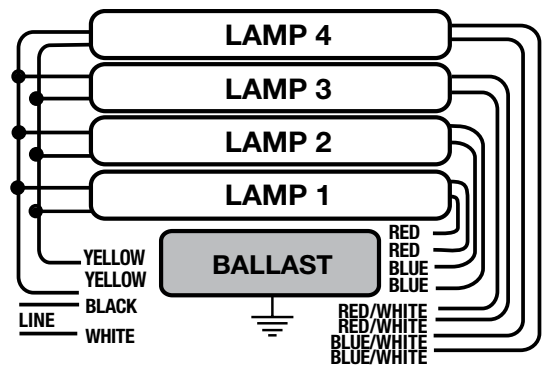
Wiring Diagrams



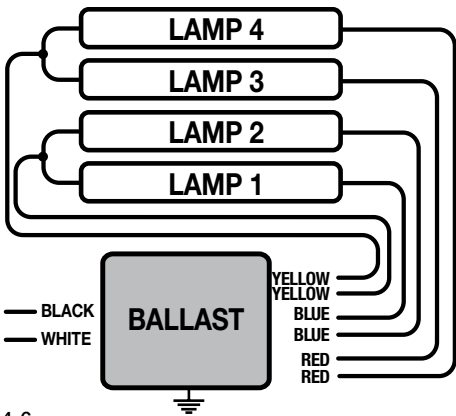
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3-9



4-5



4-6

ELECTRONIC FLUORESCENT BALLASTS

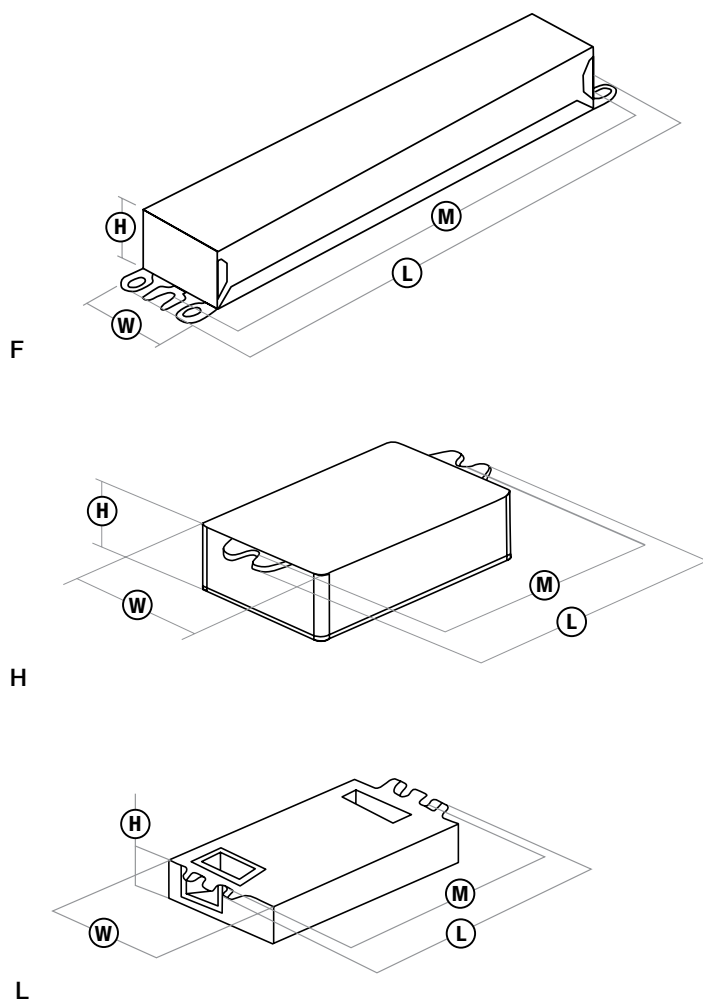
T9 Circline

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
FC8T9																	
1	22	RS	120	50150	E1CR22RS/120/PT	0.33	21	0.52	0.90	<150	0°F	1-4	H	3.45"	3.12"	1.81"	1.21"
FC16T9																	
1	40	PS	120	52106	EP2CF26PS/MV/DC/K	0.34	43	0.99	1.00	<10	0°F	1-13	L	5.00"	4.63"	2.40"	1.00"
	40	PS	277	52106	EP2CF26PS/MV/DC/K	0.15	43	0.99	1.00	<10	0°F	1-13	L	5.00"	4.63"	2.40"	1.00"
FC8T9 + FC12T9																	
2	22+32	RS	120	50148	*E2CR72RS/120/PT	0.60	40	0.54	0.76	<150	0°F	2-3	F	6.46"	6.00"	1.89"	1.00"
FC12T9 + FC16T9																	
2	32+40	RS	120	50148	*E2CR72RS/120/PT	0.75	50	0.53	0.70	<150	0°F	2-3	F	6.46"	6.00"	1.89"	1.00"

*Ballast operates two different lamps together.

Case diagrams and wiring diagrams can be found on pages 193-194.

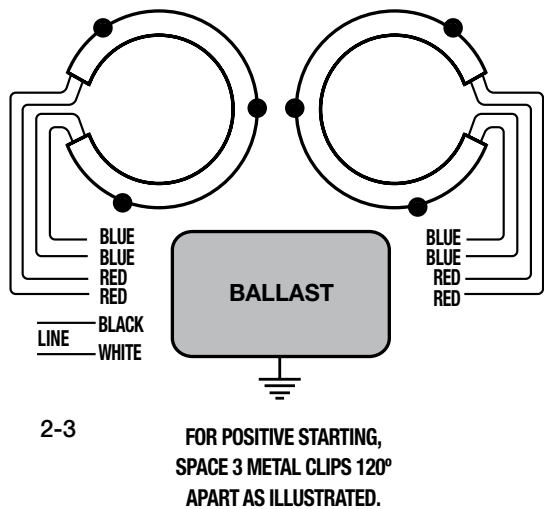
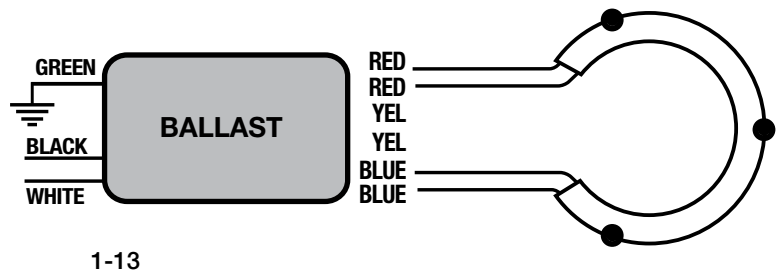
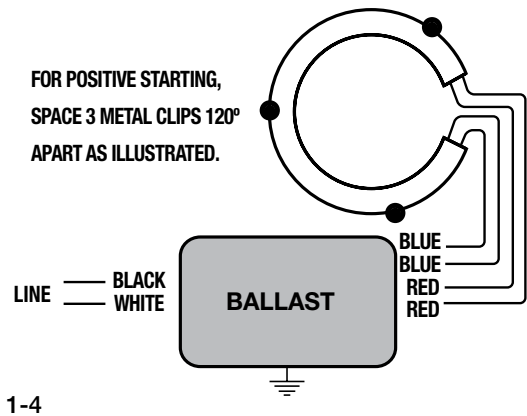
Case Diagrams



ELECTRONIC FLUORESCENT BALLASTS

T9 Circline

Wiring Diagrams



ELECTRONIC FLUORESCENT BALLASTS

T12

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F14T12																	
1	14	RS	120	50108	⊗E120RS/120	0.24	15.5	0.54	1.00	<150	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
2	14	RS	120	50110	E220RS/120	0.42	27	0.54	0.85	<150	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"
F15T12																	
1	15	RS	120	50108	⊗E120RS/120	0.25	16	0.54	1.00	<140	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
2	15	RS	120	50110	E220RS/120	0.48	32	0.56	1.02	<150	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"
F20T12																	
1	20	RS	120	50108	⊗E120RS/120	0.26	18	0.56	0.90	<130	0°F	1-18	F	6.46"	6.00"	1.37"	1.00"
2	20	RS	120	50110	E220RS/120	0.52	36	0.57	0.87	<130	0°F	2-12	F	6.46"	6.00"	1.37"	1.00"
F25T12/48"																	
1	25	RS	120	50128	EP240RS/120	0.43	51	0.99	1.70	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	25	RS	120	50160	EP240RS/MV	0.43	51	0.99	1.70	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	25	RS	277	50160	EP240RS/MV	0.19	51	0.99	1.70	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
2	25	RS	120	50128	EP240RS/120	0.66	78	0.99	1.40	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	25	RS	120	50160	EP240RS/MV	0.66	78	0.99	1.40	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	25	RS	277	50160	EP240RS/MV	0.28	78	0.98	1.40	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
F30T12																	
1	30	RS	120	50128	EP240RS/120	0.32	38	0.98	1.00	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	30	RS	120	50160	EP240RS/MV	0.32	38	0.99	1.00	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	30	RS	277	50160	EP240RS/MV	0.14	38	0.99	1.00	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
2	30	RS	120	50128	EP240RS/120	0.49	58	0.99	0.88	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	30	RS	120	50160	EP240RS/MV	0.49	58	0.99	0.88	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	30	RS	277	50160	EP240RS/MV	0.22	58	0.97	0.88	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
F34T12, FB34																	
1	34	RS	120	50128	EP240RS/120	0.34	40	0.98	1.10	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	34	RS	120	50160	EP240RS/MV	0.34	40	0.98	1.10	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	34	RS	277	50160	EP240RS/MV	0.15	40	0.98	1.10	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
2	34	RS	120	50128	EP240RS/120	0.53	63	0.98	0.85	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	34	RS	120	50160	EP240RS/MV	0.53	63	0.98	0.85	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	34	RS	277	50160	EP240RS/MV	0.23	63	0.98	0.85	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
F40T12, FB40																	
1	40	RS	120	50128	EP240RS/120	0.40	47	0.99	1.10	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	40	RS	120	50160	EP240RS/MV	0.40	47	0.99	1.10	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
	40	RS	277	50160	EP240RS/MV	0.17	47	0.99	1.10	<10	0°F	1-11	F	9.50"	8.90"	1.70"	1.15"
2	40	RS	120	50128	EP240RS/120	0.62	74	0.99	0.88	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	40	RS	120	50160	EP240RS/MV	0.62	74	0.99	0.88	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"
	40	RS	277	50160	EP240RS/MV	0.27	74	0.99	0.88	<10	0°F	2-1	F	9.50"	8.90"	1.70"	1.15"

⊗ Item will be discontinued when inventory is depleted.
Case diagrams and wiring diagrams can be found on pages 197-199.

ELECTRONIC FLUORESCENT BALLASTS

T12

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height
F48T12/ES																	
2	30	IS	120	50130	EP275IS/MV	0.60	64	0.95	0.92	<12	60°F	2-4	D	11.70"	11.00"	3.15"	1.85"
	30	IS	277	50130	EP275IS/MV	0.26	64	0.95	0.92	<12	60°F	2-4	D	11.70"	11.00"	3.15"	1.85"
F48T12																	
2	40	IS	120	50132	EP260IS/120	0.62	74	0.98	0.92	<12	0°F	2-4	F	9.50"	8.90"	1.70"	1.15"
	40	IS	277	50134	EP260IS/277	0.27	74	0.98	0.92	<12	0°F	2-4	F	9.50"	8.90"	1.70"	1.15"
	40	IS	120	50130	EP275IS/MV	0.68	76	0.95	0.92	<10	0°F	2-4	D	11.70"	11.00"	3.15"	1.85"
	40	IS	277	50130	EP275IS/MV	0.30	76	0.95	0.92	<10	0°F	2-4	D	11.70"	11.00"	3.15"	1.85"
F48T12/HO																	
2	60	RS	120	50162	EP2110RS/120	0.88	104	0.99	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	60	RS	120	50164	EP2110RS/MV	0.88	104	0.99	0.90	<20	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	60	RS	277	50164	EP2110RS/MV	0.38	104	0.95	0.90	<20	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
F60T12/HO																	
2	75	RS	120	50162	EP2110RS/120	1.10	132	0.99	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	75	RS	120	50164	EP2110RS/MV	1.10	132	0.99	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	75	RS	277	50164	EP2110RS/MV	0.48	132	0.96	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
F72T12																	
1	57	IS	120	50130	EP275IS/MV	0.60	67	0.95	1.05	<12	0°F	1-12	D	11.70"	11.00"	3.15"	1.85"
	57	IS	277	50130	EP275IS/MV	0.26	67	0.95	1.05	<12	0°F	1-12	D	11.70"	11.00"	3.15"	1.85"
2	57	IS	120	50132	EP260IS/120	0.90	106	0.98	0.95	<12	0°F	2-4	F	9.50"	8.90"	1.70"	1.15"
	57	IS	277	50134	EP260IS/277	0.39	106	0.98	0.95	<12	0°F	2-4	F	9.50"	8.90"	1.70"	1.15"
	57	IS	120	50130	EP275IS/MV	0.92	107	0.95	0.95	<12	0°F	2-4	D	11.70"	11.00"	3.15"	1.85"
	57	IS	277	50130	EP275IS/MV	0.40	107	0.95	0.95	<12	0°F	2-4	D	11.70"	11.00"	3.15"	1.85"
F72T12/HO																	
2	85	RS	120	50162	EP2110RS/120	1.30	154	0.99	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	85	RS	120	50164	EP2110RS/MV	1.30	154	0.99	0.90	<20	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	85	RS	277	50164	EP2110RS/MV	0.56	154	0.97	0.90	<20	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
F96T12/ES																	
1	60	IS	120	50130	EP275IS/MV	0.60	71	0.98	1.12	<12	60°F	1-12	D	11.70"	11.00"	3.15"	1.85"
	60	IS	277	50130	EP275IS/MV	0.27	72	0.98	1.12	<12	60°F	1-12	D	11.70"	11.00"	3.15"	1.85"
2	60	IS	120	50132	EP260IS/120	0.97	115	0.98	0.95	<12	60°F	2-4	F	9.50"	8.90"	1.70"	1.15"
	60	IS	277	50134	EP260IS/277	0.42	115	0.98	0.95	<12	60°F	2-4	F	9.50"	8.90"	1.70"	1.15"
	60	IS	120	50130	EP275IS/MV	0.97	115	0.99	0.95	<10	60°F	2-4	D	11.70"	11.00"	3.15"	1.85"
	60	IS	277	50130	EP275IS/MV	0.42	115	0.98	0.95	<10	60°F	2-4	D	11.70"	11.00"	3.15"	1.85"

Case diagrams and wiring diagrams can be found on pages 197-199.

ELECTRONIC FLUORESCENT BALLASTS

T12

Lamp Type			Input Volts	Product Number	Product Code	Line Current (Amps)	Input Power (Watts)	Power Factor	Ballast Factor	THD %	Min. Start Temp	Wire Diag.	Case	Case Dimensions			
Qty.	Watts	Start Type												Length	Mounting	Width	Height

F96T12

1	75	IS	120	50130	EP275IS/MV	0.69	83	0.99	1.05	<12	0°F	1-12	D	11.70"	11.00"	3.11"	1.85"
	75	IS	277	50130	EP275IS/MV	0.31	83	0.98	1.05	<12	0°F	1-12	D	11.70"	11.00"	3.11"	1.85"
2	75	IS	120	50130	EP275IS/MV	1.15	133	0.99	0.86	<12	0°F	2-4	D	11.70"	11.00"	3.11"	1.85"
	75	IS	277	50130	EP275IS/MV	0.49	133	0.99	0.86	<12	0°F	2-4	D	11.70"	11.00"	3.11"	1.85"

F96T12/HO/ES

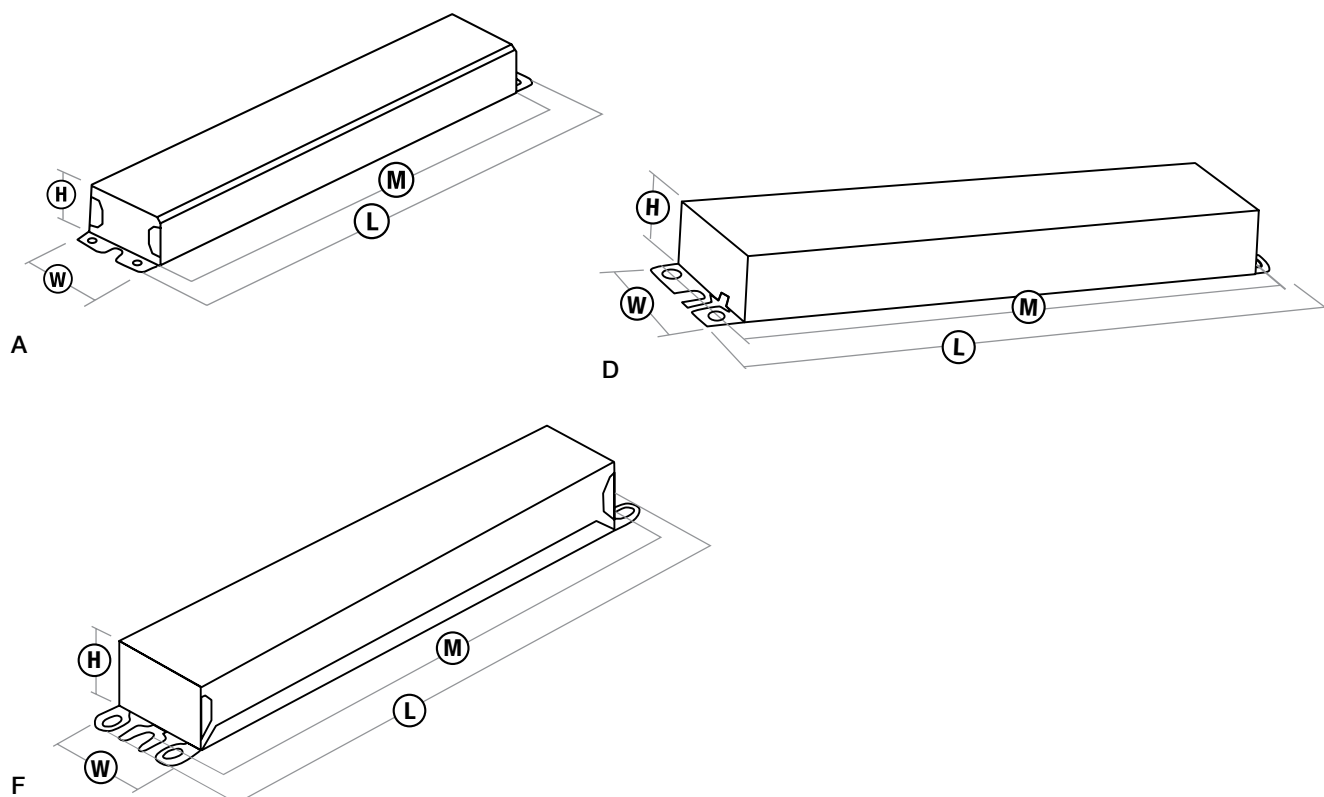
2	95	RS	120	50162	EP2110RS/120	1.38	164	0.99	0.90	<10	60°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	95	RS	120	50164	EP2110RS/MV	1.38	164	0.98	0.90	<20	60°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	95	RS	277	50164	EP2110RS/MV	0.60	164	0.97	0.90	<20	60°F	2-1	A	11.80"	11.00"	2.15"	1.61"

F96T12/HO

1	110	RS	120	50162	EP2110RS/120	0.88	104	0.99	0.92	<15	-20°F	1-7	A	11.80"	11.00"	2.15"	1.61"
	110	RS	120	50164	EP2110RS/MV	0.88	104	0.99	0.92	<20	-20°F	1-7	A	11.80"	11.00"	2.15"	1.61"
	110	RS	277	50164	EP2110RS/MV	0.38	104	0.95	0.92	<20	-20°F	1-7	A	11.80"	11.00"	2.15"	1.61"
2	110	RS	120	50162	EP2110RS/120	1.65	196	0.99	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	110	RS	120	50164	EP2110RS/MV	1.65	196	0.99	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"
	110	RS	277	50164	EP2110RS/MV	0.71	196	0.98	0.90	<10	-20°F	2-1	A	11.80"	11.00"	2.15"	1.61"

Case diagrams and wiring diagrams can be found on pages 197-199.

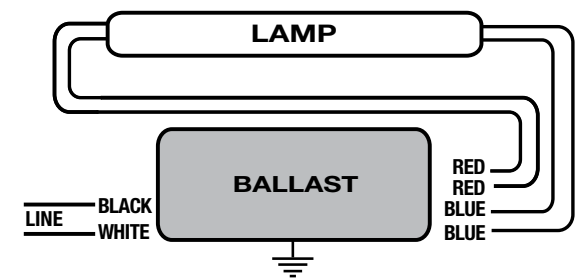
Case Diagrams



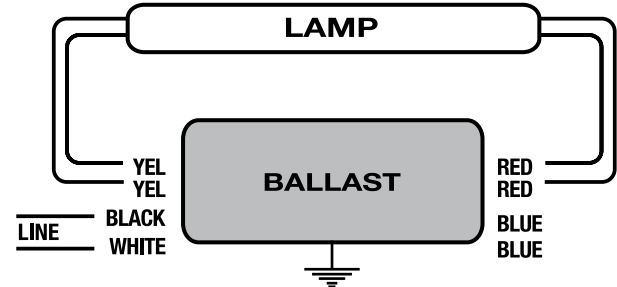
ELECTRONIC FLUORESCENT BALLASTS

T12

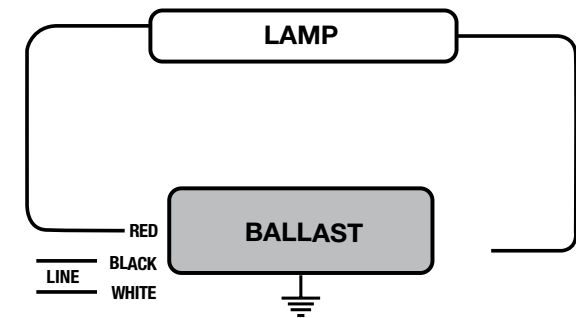
Wiring Diagrams



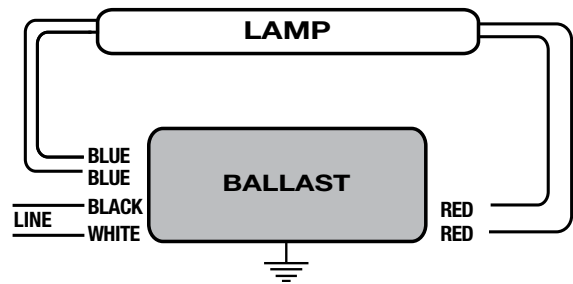
1-7



1-11



1-12

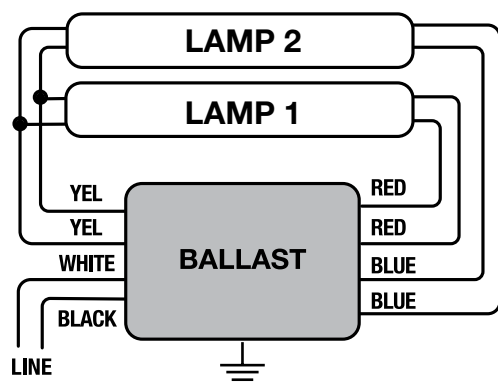


1-18

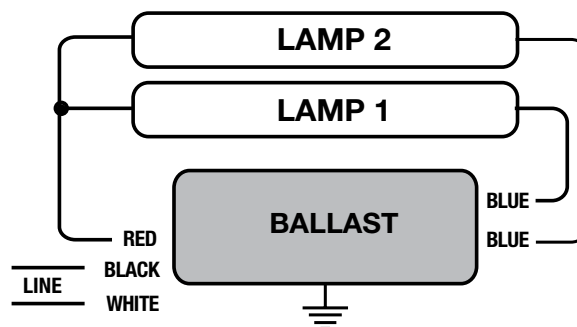
ELECTRONIC FLUORESCENT BALLASTS

T12

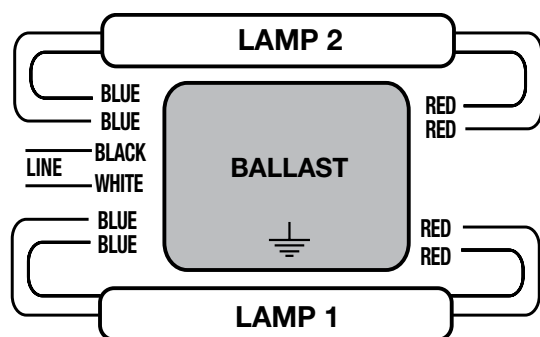
Wiring Diagrams



2-1



2-4



2-12

ELECTRONIC FLUORESCENT BALLASTS

Cross Reference Guide

HALCO	ADVANCE	UNIVERSAL/ MAGNETEK	HOWARD
E114RS/120	-	-	-
E120RS/120	-	-	-
E220RS/120	-	-	-
EP2110RS/120	-	B295SR120HP	E2/110RS-120
EP2110RS/MV	ICN-2S110-SC	B295SRUNVHP	EP2/110RS-MV
EP228PS/MV/MC	ICN-2S28-N	B228PUNV-N	EP2/28T5/PRS/MV
EP132IS/MV/MC	ICN-1P32-N	B132IUNVHP-N	-
E232IS/120/R/MC	REB-2P32-SC	B232I120RES-G	E2/32IS-120MC
EP232IS/120/MC	-	B232I120RH-A	EP2/32IS-120MC
EP232IS/MV/MC	ICN-2P32-N	B232IUNVHP-N	EP2/32IS/MV/MC
EP232IS/H/MV/HE	IOPA-2P32-HL-N	B232IUNVHEH-A	EPH2/32IS/MV/MC/HE
EP232IS/L/MV/HE	IOPA-2P32-LW-N	B232IUNVEL-A	EPL2/32IS/MV/MC/HE
EP232IS/MV/HE	IOPA-2P32-N	B232IUNVHE-A	EP2/32IS/MV/MC/HE
EP232PS/MV/HE	IOP-2PSP32-SC	B232PUNVHE-B	EP2/PRS/MV/MC/HE
EP232PS/L/MV/HE	IOP-2PSP32-LW-SC	B232PUNVEL-B	-
EP239HO/PS/MV	ICN-2S39	B239PUNV-D	EP2/39HO/PRS/MV
EP240RS/120	RELB-2S40-N	B240R120HP	E2/40RS-120MC
EP240RS/MV	ICN-2S40-N	-	EP2/40RS/MV/MC
EP254HO/PS/MV	ICN-2S54	B254PUNV-D	EP2/54HO/PRS/MV/90CW
EP254HO/PS/MV/MC	ICN-2S54-N	-	EP2/54HO/PRS/MV/W/MC
EP259IS/MV	IOP-2P59-SC	B259IUNVHP-A	EP2/59IS/MV/MC
EP260IS/120	-	B260I120M-A	-
EP260IS/277	-	-	-
EP275IS/MV	ICN-2P60-SC	B260IUNVHP	EP2/75IS/MV/SC
EP332IS/MV/MC	ICN-3P32-N	B332IUNVHP-A	-
EP332IS/H/MV/HE	IOPA-3P32-HL-N	B332IUNVHEH-A	-
EP332IS/L/MV/HE	IOPA-3P32-LW-N	B332IUNVEL-A	EPL3/32IS/MV/SC/HE
EP332IS/MV/HE	IOPA-3P32-N	B332IUNVHE-A	EP3/32IS/MV/MC/HE
E432IS/120/R/SL	REB-4P32-SC	B432I120RES-A	-
EP432IS/120/SL	-	B432I120RH-A	-
EP432IS/MV/MC	ICN-4P32-N	B432IUNVHP-A	-
EP432IS/L/MV/HE	IOPA-4P32-LW-N	B432IUNVEL-A	EPL4/32IS/MV/MC/HE
EP432IS/MV/HE	IOPA-4P32-N	B432IUNVHE-A	EP4/32IS/MV/MC/HE
EP432PS/MV/HE	IOP-4PSP32-SC	B432PUNVHE-A	EP4/32PPRS/MV/SC/HE
EP432PS/L/MV/HE	IOP-4PSP32LW-SC	B432PUNVEL-A	-
EP454HO/PS/MV	IOP-4PSP54-2LS-G	B454PUNV-E	-
E1CR22RS/120/PT	-	-	-
E2CR72RS/120/PT	-	-	-

ELECTRONIC FLUORESCENT BALLASTS

Specifications

SPECIFICATIONS

	Ballast shall have a Lamp Current Crest Factor of <1.7 in accordance with ANSI C82.1.
	Ballast shall withstand line voltage transients and surges as specified in ANSI standard C62.41-1991.
	Ballast shall have an Underwriters Laboratories certification for operation in the US and either an Underwriters Laboratories or Canadian Standards Association certification for operation in Canada.
	Ballast shall comply with the EMI and RFI limits of the code of Federal Regulations, Title 47, Part 18C for Non-Consumer equipment.
	Ballast shall operate in the range of 50-60Hz input frequency.
	Ballast shall operate at a maximum of 18 feet remote mounting distance for primary lamp. For energy saving reduced wattages lamps, remote mounting distances will be shorter.
	Ballast shall operate at a frequency of 20-40 kHz.
	Ballast shall contain potting compound in order to protect from moisture, dissipate heat and provide stability.
	All ProFormance ballasts shall have a power factor of 0.98 or better on the primary lamp configuration.
	Ballast shall be sound rated Class A.
	Ballast shall have a minimum starting temperature of 0°F standard lamps and 60°F on Energy Saving lamps.
	Ballast shall tolerate sustained variations of +/-10% of supply voltage with no damage to the ballast.
	Ballast shall not contain PCBs.
	Manufacturer shall provide written warranty against defects in material or workmanship for 5 years from date of manufacture.

ELECTRONIC FLUORESCENT BALLAST

Lamp Compatibility Specifications

E114RS/120 50104	E120RS/120 50108	E154HO/RS/120 50140	E220RS/120 50110
Lamp Type # of Lamps	Lamp Type # of Lamps	Lamp Type # of Lamps	Lamp Type # of Lamps
F14T5 1	F20T12 1	F54T5/HO 1	F20T12 2
F6T5 2	F20T8 1	PLL55/RS/2G11 1	F20T8 2
F8T5 2	F18T8 24" 1		F18T8 24" 2
F13T5 1	F17T8 1		F17T8 2
F21T5 1	F15T12 1		F15T12 2
PL13D/E/G24q 1	F15T8 1		F15T8 2
PL13T/E/G24q 1	F14T12 1		F14T12 2
	F14T8 1		F14T8 2

E232IS/120/R/MC 50118	E432IS/120/R/SL 50158	EP132IS/MV/MC 50112	EP2110RS/120 50162
Lamp Type # of Lamps	Lamp Type # of Lamps	Lamp Type # of Lamps	Lamp Type # of Lamps
F32T8 1, 2	F32T8 3, 4	F32T8 1	F96T12/HO 1, 2
F25T8 1, 2	F28T8 3, 4	F28T8 1	F96T12/HO/ES 2
F17T8 1, 2	F25T8 3, 4	F25T8 1	F72T12/HO 2
F40T8 1	F17T8 3, 4	F17T8 1	F60T12/HO 2
		F40T8 1	F48T12/HO 2

EP2110RS/MV 50164	EP228PS/MV/MC 52112	EP232IS/120/MC 50176
Lamp Type # of Lamps	Lamp Type # of Lamps	Lamp Type # of Lamps
F96T12/HO 1, 2	F35T5 1, 2	F32T8 1, 2
F96T12/HO/ES 2	F28T5 1, 2	F25T8 1, 2
F72T12/HO 2	F21T5 1, 2	F17T8 1, 2
F60T12/HO 2	F14T5 1, 2	F40T8 1
F48T12/HO 2		

ELECTRONIC FLUORESCENT BALLAST

Lamp Compatibility Specifications

EP232IS/H/MV/HE 50115		EP232IS/L/MV/HE 50119		EP232IS/MV/HE 50123		EP232IS/MV/MC 50116	
Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps
F32T8	1, 2	F32T8	1, 2	F32T8	1, 2	F32T8	1, 2
F28T8	1, 2	F28T8	1, 2	F28T8	1, 2	F28T8	1, 2
F28T8/ES	1, 2	F25T8/ES	1, 2	F25T8/ES	1, 2	F25T8	1, 2
F25T8	1, 2	F25T8	1, 2	F25T8	1, 2	F17T8	1, 2
F17T8	1, 2	F17T8	1, 2	F17T8	1, 2	F40T8	1
F40T8	1	F40T8	1	F40T8	1		

EP232PS/L/MV/HE 50178		EP232PS/MV/HE 50180		EP239HO/PS/MV 50142		EP240RS/120 50128	
Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps
F32T8	1, 2	F32T8	1, 2	F39T5/HO	1, 2	F40T12	1, 2
F28T8	1, 2	F28T8	1, 2	F24T5/HO	1, 2	F34T12	1, 2
F25T8/ES	1, 2	F25T8/ES	1, 2	PLL40/2G11	1, 2	F25T12/48"	1, 2
F25T8	1, 2	F25T8	1, 2	PLL36/2G11	1, 2	F30T12	1, 2
F17T8	1, 2	F17T8	1, 2	PLL24/2G11	1, 2		
F40T8	1	F40T8	1	FC40T5	1, 2		
				FC22T5	1, 2		
				FC22T5 + FC40T5	2		

EP240RS/MV 50160		EP254HO/PS/MV 50144		EP254HO/PS/MV/MC 52114		EP259IS/MV 50136	
Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps
F40T12	1, 2	F54T5/HO	1, 2	F54T5/HO	1, 2	F96T8	1, 2
F34T12	1, 2	PLL55/2G11	1, 2	F49T5/HO	1, 2		
F25T12/48"	1, 2	PLL50/2G11	1, 2	PLL55/2611	1, 2		
F30T12	1, 2	FC55T5/HO	1, 2	PLL50/2611	1, 2		

ELECTRONIC FLUORESCENT BALLAST

Lamp Compatibility Specifications

EP260IS/120 50132		EP260IS/277 50134		EP275IS/MV 50130	
Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps
F96T12/ES	2	F96T12/ES	2	F96T12	1, 2
F72T12	2	F72T12	2	F96T12/ES	1, 2
F48T12	2	F48T12	2	F72T12	1, 2
F96T12/HO	1	F96T12/HO	1	F48T12	1, 2
				F48T12/ES	1, 2

EP332IS/H/MV/SL 50121		EP332IS/L/MV/HE 50168		EP332IS/MV/HE 50170	
Lamp Type	# of Lamps	Lamp Type	# of Lamps	Lamp Type	# of Lamps
F32T8	2, 3	F32T8	2, 3	F32T8	2, 3
F28T8	2, 3	F28T8	2, 3	F28T8	2, 3
F25T8/ES	2, 3	F25T8/ES	2, 3	F25T8/ES	2, 3
F25T8	2, 3	F25T8	2, 3	F25T8	2, 3
F17T8	2, 3	F17T8	2, 3	F17T8	2, 3
F40T8	2	F40T8	2	F40T8	2

EP332IS/MV/MC 50122	
Lamp Type	# of Lamps
F32T8	2, 3
F28T8	2, 3
F25T8	2, 3
F17T8	2, 3
F40T8	2, 3

ELECTRONIC FLUORESCENT BALLAST

Lamp Compatibility Specifications

EP432IS/120/SL 50124	
Lamp Type	# of Lamps
F32T8	3, 4
F28T8	3, 4
F25T8	3, 4
F17T8	3, 4
F40T8	3
PLL40/2G11	3

EP432IS/L/MV/HE 50172	
Lamp Type	# of Lamps
F32T8	3, 4
F28T8	3, 4
F25T8/ES	3, 4
F25T8	3, 4
F17T8	3, 4
F40T8	3

EP432IS/MV/HE 50174	
Lamp Type	# of Lamps
F32T8	3, 4
F28T8	3, 4
F25T8/ES	3, 4
F25T8	3, 4
F17T8	3, 4
F40T8	3

EP432IS/MV/MC 50126	
Lamp Type	# of Lamps
F32T8	3, 4
F28T8	3, 4
F25T8	3, 4
F17T8	3, 4
F40T8	3
PLL40/2G11	3

EP432PS/L/MV/HE 50182	
Lamp Type	# of Lamps
F32T8	3, 4
F28T8	3, 4
F25T8/ES	3, 4
F25T8	3, 4
F17T8	3, 4
F40T8	3

EP432PS/MV/HE 50184	
Lamp Type	# of Lamps
F32T8	3, 4
F28T8	3, 4
F25T8/ES	3, 4
F25T8	3, 4
F17T8	3, 4
F40T8	3

EP454HO/PS/MV 50186	
Lamp Type	# of Lamps
F54T5/HO	1, 2, 3, 4
F49T5/HO	2, 3, 4
PLL50/2G11	3, 4

E1CR22RS/120/PT 50150	
Lamp Type	# of Lamps
FC8T9	1

E1CR32RS/120/PT 50146	
Lamp Type	# of Lamps
FC12T9	1
FC9T9/30W	1

E2CR72RS/120/PT 50148	
Lamp Type	# of Lamps
FC12T9 + FC16T9	2
FC8T9 + FC12T9	2