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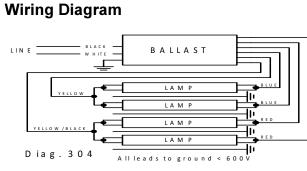
Ballasts

Signpro

ISB043214E

Electrical Specifications at 120V

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
* F24T12/HO	4	35	-20/-29	0.67	79	0.67	10	0.99	1.7	0.85
F48T12/HO	4	60	-20/-29	1.18	141	0.62	10	0.99	1.7	0.44
F72T8/HO	4	65	-20/-29	2.28	240	0.84	10	0.99	1.7	0.35
F96T12/HO	4	110	-20/-29	2.26	265	0.61	10	0.99	1.7	0.23

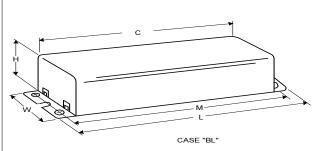


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

					in.	cm.
	in.	cm.		Yellow/Blue	120	304.8
Black	24	61		Blue/White	-	0
White	24	61		Brown		0
Blue	120	304.8			0	
Red	120	304.8		Orange		0
Yellow	120	304.8		Orange/Black		0
	120			Black/White		0
Gray		0		Red/White		0
Violet		0				Ū

Enclosure



Enclosure Dimensions

[OverAll (L)	Width (W)	Height (H)	Mounting (M)
ľ	14.3125 "	3.1875 "	2.625 "	13.75 "
[14 5/16	3 3/16	2 5/8	13 3/4
	36.4 cm	8.1 cm	6.7 cm	34.9 cm





Electrical Specifications at 120V

ISB043214E@120V						
Brand Name	SIGNPRO					
Ballast Type	Electronic					
Starting Method	Instant Start					
Lamp Connection	Parallel					
Input Voltage	120-277					
Input Frequency	50/60 HZ					
Status	Active					

Notes:

Electronic Sign Ballast Specifications

Notes:

Section I - Physical Characteristics

1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.

1.2 Ballast shall be provided with integral leads color-coded per ANSI C82.11.

Section II - Performance

2.1 Ballast shall be Instant Start.

2.2 Ballast shall provide Independent Lamp Operation (ILO) for Instant Start ballasts allowing remaining lamp(s) to maintain full light output when one or more lamps fail.

2.3 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power

2.4 Ballast shall operate from 50/60 Hz input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency). 2.5 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz to avoid interference with infrared devices and

eliminate visible flicker. 2.6 Ballast shall have a Power Factor greater than 0.98 for primary lamp.

2.7 Ballast shall have a minimum ballast factor for primary lamp application as follows: 0.6 for T12HO, 0.8 for T8HO.

2.8 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.

2.9 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.

2.10 Ballast shall have a Class A sound rating.

2.11 Ballast shall have a minimum starting temperature of -29C (-20F) for HO lamps, for primary lamp application.

2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions.

Section III - Regulatory

3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).

3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P and Type 2 Outdoor; and Canadian Standards Association (CSA) certified where applicable.

3.3 Ballast shall comply with ANSI C62.41 Category A for Transient protection.

3.4 Ballast shall comply with ANSI C82.11 where applicable.

3.5 Ballast shall comply with applicable requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.

3.6 Ballast shall comply with NEMA 410 for in-rush current limits.

3.7 Ballast shall meet RoHS Compliance Standards.

3.8 Ballast shall comply requirements for ballast luminous efficiency (B.L.E.) per DOE November 14, 2014 rulemaking.

Section IV - Other

4.1 Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.

4.2 Ballast shall carry a three-year warranty from date of manufacture against defects in material or workmanship, including replacement, for operation at a maximum case temperature of 90C.

4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts for the North American market.

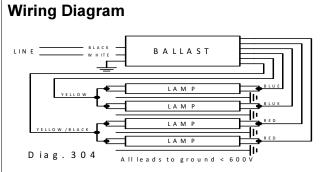




Revised 09/25/14

Electrical Specifications at 277V

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
* F24T12/HO	4	35	-20/-29	0.32	80	0.67	10	0.91	1.7	0.84
F48T12/HO	4	60	-20/-29	0.53	141	0.62	10	0.97	1.7	0.44
F72T8/HO	4	65	-20/-29	0.87	237	0.84	10	0.99	1.7	0.35
F96T12/HO	4	110	-20/-29	0.97	260	0.61	10	0.99	1.7	0.23

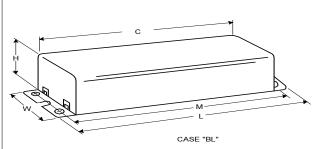


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

				ın.	cm.
	in.	cm.	Yellow/Blue	120	304.8
Black	24	61	Blue/White		0
White	24	61	Brown		0
Blue	120	304.8			0
Red	120	304.8	Orange		0
	-		Orange/Black		0
Yellow	120	304.8	Black/White		0
Gray		0	Red/White		0
Violet		0	i tou/ vinite		0

Enclosure



Enclosure Dimensions

1	OverAll (L)	Width (W)	Height (H)	Mounting (M)
	14.3125 "	3.1875 "	2.625 "	13.75 "
	14 5/16	3 3/16	2 5/8	13 3/4
	36.4 cm	8.1 cm	6.7 cm	34.9 cm





Electrical Specifications at 277V

ISB043214E@277V						
Brand Name	SIGNPRO					
Ballast Type	Electronic					
Starting Method	Instant Start					
Lamp Connection	Parallel					
Input Voltage	120-277					
Input Frequency	50/60 HZ					
Status	Active					

Notes:

Electronic Sign Ballast Specifications

Notes:

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2.10 Ballast shall have a Class A sound rating.

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2.12 Ballast shall tolerate sustained open circuit and short circuit output conditions.

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3.3 Ballast shall comply with ANSI C62.41 Category A for Transient protection.

3.4 Ballast shall comply with ANSI C82.11 where applicable.

3.5 Ballast shall comply with applicable requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.

3.6 Ballast shall comply with NEMA 410 for in-rush current limits.

3.7 Ballast shall meet RoHS Compliance Standards.

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Revised 09/25/14

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