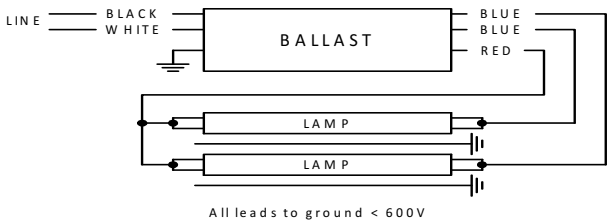
PHILIPS
ADVANCE

ISB021612E@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**

Electrical Specifications

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	2	35	-20/-29	0.36	43	0.72	10	0.99	1.7	1.67
F48T12/HO	2	60	-20/-29	0.64	77	0.68	10	0.99	1.7	0.88
F72T8/HO	2	65	-20/-29	1.04	124	0.86	10	0.99	1.7	0.69
F96T12/HO	2	110	-20/-29	1.14	136	0.68	10	0.99	1.7	0.50

Wiring Diagram



Diag. 302

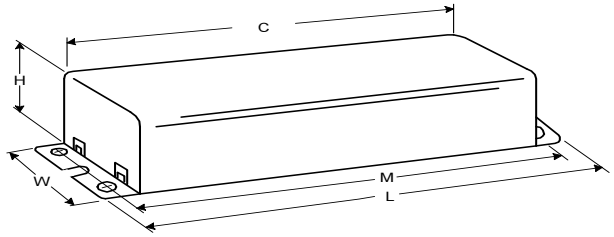
The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.
Black	24	61
White	24	61
Blue	120	304.8
Red	120	304.8
Yellow		0
Gray		0
Violet		0

	in.	cm.
Yellow/Blue		0
Blue/White		0
Brown		0
Orange		0
Orange/Black		0
Black/White		0
Red/White		0

Enclosure



CASE "BL"

Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.64 "	1.69 "	1.13 "	9.00 "
9 16/25	1 69/100	1 13/100	9
24.5 cm	4.3 cm	2.9 cm	22.9 cm

Revised 09/25/14

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Philips Lighting Electronic N.A
10275 West Higgins Road Rosemont, IL 60018 Tel.: 800-322-2086 Fax: 888-432-1882
Customer Support/Technical Service: 800-372-3331 · OEM Support: 866-915-5886

PHILIPS
ADVANCE

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Ballast Type	**Electronic**
Starting Method	**Instant Start**
Lamp Connection	**Parallel**
Input Voltage	**120-277**
Input Frequency	**50/60 HZ**
Status	**Active**

Electrical Specifications

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.

RoHS COMPLIANT

Revised 09/25/14

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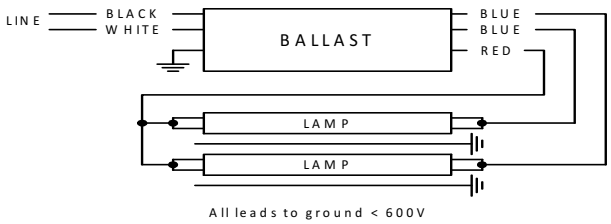
PHILIPS
ADVANCE

ISB021612E@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**

Electrical Specifications

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	2	35	-20/-29	0.17	44	0.71	18	0.91	1.7	1.61
F48T12/HO	2	60	-20/-29	0.29	76	0.68	13	0.99	1.7	0.89
F72T8/HO	2	65	-20/-29	0.45	122	0.87	10	0.98	1.7	0.71
F96T12/HO	2	110	-20/-29	0.49	133	0.68	10	0.98	1.7	0.51

Wiring Diagram



Diag. 302

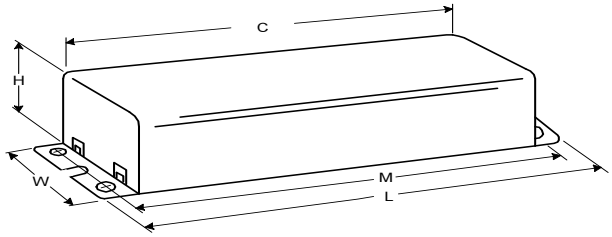
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Standard Lead Length (inches)

	in.	cm.
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Blue	120	304.8
Red	120	304.8
Yellow		0
Gray		0
Violet		0

	in.	cm.
Yellow/Blue		0
Blue/White		0
Brown		0
Orange		0
Orange/Black		0
Black/White		0
Red/White		0

Enclosure



CASE "BL"

Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
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