



# KTSE-E-0416-12-1-S

## SMARTWIRE™ ELECTRONIC SIGN BALLAST



### DESCRIPTION

1-2 Lamps | T8HO or T12HO | 4'-16' Combined Lamp Length | Series Wiring



**STARTING METHOD:** Rapid Start | **INPUT VOLTAGE:** 120VAC ±10% | **LAMP CONNECTION:** Series | **INPUT FREQUENCY:** 60 Hz

### PRODUCT FEATURES

- Sound Rated: A
- Minimum Starting Temperature: -20°F, -30°C
- Maximum Case Temperature: 194°F, 90°C
- Meets FCC Part 18 (Class A) Non-Consumer Limits
- UL, cUL 935 Listed, Class P, Type 2 Outdoor, Type HL
- Open Circuit Voltage: 1000V

### ELECTRICAL SPECIFICATIONS FOR COMMON CONFIGURATIONS\*

Lamp Type	No. of Lamps	Input Volts	Input Watts	Input Current (Amps)	Power Factor	Crest Factor
F96T12/HO, 110W	2	120	186	1.60	>0.90	<1.70
F96T12/HO, 110W	1	120	101	0.85	>0.90	<1.70
F120T12/HO, 135W	1	120	128	1.10	>0.90	<1.70
F48T12/HO, 60W	2	120	107	0.99	>0.90	<1.70
F96T8/HO, 86W	1	120	122	1.05	>0.90	<1.70
F72T8/HO, 65W	2	120	167	1.45	>0.90	<1.70
F48T8/HO, 44W	2	120	113	0.99	>0.90	<1.70

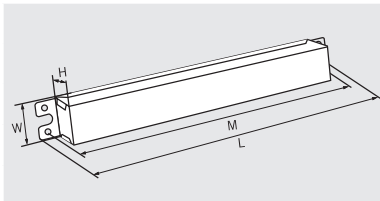
\*Consult factory for additional sign configurations.

### LAMP FOOTAGE

Lamp Type	Minimum	Maximum
T12HO	4'	16'
T8HO	4'	12'

### MECHANICAL SPECIFICATIONS

#### CASE DIMENSIONS



LENGTH	11.77"
WIDTH	2.15"
HEIGHT	1.62"
MOUNTING	11.21"
CASE STYLE	L28

#### STANDARD LEAD LENGTHS\*

WHITE	18"
BLACK	18"
RED	60"
BLUE	60"
YELLOW	60"

Lead wires are 18 AWG  
105°C/600V, solid copper.

\*Consult Keystone for special lead length requirements.

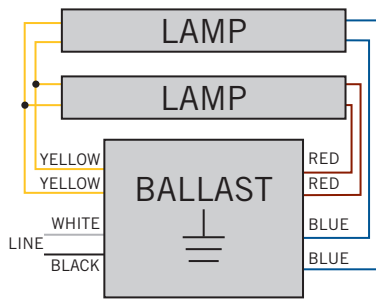
**CASE MATERIAL:** Metal

### FOR INSTALLATION PURPOSES

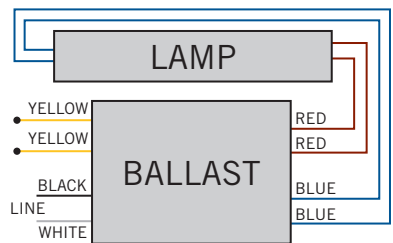
Ballast can drive 1 or 2 T12HO lamps in any combination from 4'-16'.

Ballast can drive 1 or 2 T8HO lamps in any combination from 4'-12'.

### WIRING DIAGRAMS

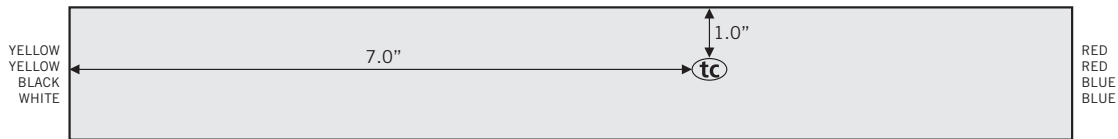


Two Lamp Application



One Lamp Application, Cap Off Unused Leads Individually

### HOT SPOT LOCATION



*Actual tc point is noted on each ballast label.*

### ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTSB-E-0416-12-1-S-IP	Individually Packaged	1	Quick Ship

### CATALOG NUMBER BREAKDOWN

# KTSB-E-0416-12-1-S-IP



\*Minimum and maximum total lamp length based on T12HO lamps.