

ELECTRONIC SIGN BALLASTS



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HOW TO READ AN ELECTRONIC SIGN BALLAST TABLE

NUMBER OF LAMPS

Specifies the number of lamps the ballast will operate.

PRODUCT CODE

Abbreviated product description can also be used for ordering.

OPEN CIRCUIT VOLTS

The voltage required to start a lamp, which is provided by a ballast to the lamp's electrodes.

WIRING DIAGRAM

References the wiring diagram to use.

INPUT VOLTS

Voltage required from a power supply for proper ballast operation.

MAX LINE CURRENT

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

CASE DIAGRAM

Representation of the ballast's case.

Lamp Data			Input Volts	Product Number	Product Code	Max Line Current (Amps)	Max Input Power (Watts)	Open Circuit Volts	Min Starting Temp	Wiring Diag.	Case Diagram	Weight (lbs.)
Number of lamps	Lamp Footage											
	Min	Max										
T8/HO												
1, 2	4'	12'	120	57114	ESB/0216/12	1.10	122	800	-20°F	1-3, 2-17	D2	2.88
1, 2	4'	12'	277	57114	ESB/0216/12	0.45	121	800	-20°F	1-3, 2-17	D2	2.88
1, 2, 3, 4	4'	24'	120	57116	ESB/0432/14	2.20	244	800	-20°F	1-17, 2-19, 3-6, 4-3	D3	4.46
1, 2, 3, 4	4'	24'	277	57116	ESB/0432/14	0.90	242	800	-20°F	1-17, 2-19, 3-6, 4-3	D3	4.46

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

LAMP FOOTAGE (Min/Max)

Specifies the minimum and maximum total lamp length per ballast.

MAX INPUT POWER

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

PRODUCT NUMBER

Use this number when placing an order.

MIN STARTING TEMP.

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

WEIGHT (lbs.)

Indicates the ballast's weight.

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T8/T12 High Output

T8 FOOTAGE CHART		Total Lamp Footage																							
Number of Lamps Per Ballast		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
	1, 2		ESB/0216/12																						
	1, 2, 3, 4		ESB/0432/14																						
	1, 2, 3, 4				ESB/1040/14																				
	4, 5, 6								ESB/0848/46																

T12 FOOTAGE CHART		Total Lamp Footage																												
Number of Lamps Per Ballast		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48					
	1, 2	ESB/0216/12																												
	1, 2, 3, 4		ESB/0432/14																											
	1, 2, 3, 4					ESB/1040/14																								
	4, 5, 6				ESB/0848/46																									

Lamp Data			Input Volts	Product Number	Product Code	Max Line Current (Amps)	Max Input Power (Watts)	Open Circuit Volts	Min Starting Temp	Wiring Diagrams	Case Diagram	Weight (lbs.)
Number of lamps	Lamp Footage											
	Min	Max										

T8/HO

1, 2	4'	12'	120	57114	ESB/0216/12	1.10	122	800	-20°F	1-3, 2-17	D2	2.88
1, 2	4'	12'	277	57114	ESB/0216/12	0.45	121	800	-20°F	1-3, 2-17	D2	2.88
1, 2, 3, 4	4'	24'	120	57116	ESB/0432/14	2.20	244	800	-20°F	1-17, 2-19, 3-6, 4-3	D3	4.46
1, 2, 3, 4	4'	24'	277	57116	ESB/0432/14	0.90	242	800	-20°F	1-17, 2-19, 3-6, 4-3	D3	4.46
1, 2, 3, 4	8'	32'	120	57118	ESB/1040/14	2.80	330	1000	-20°F	1-16, 2-18, 3-5, 4-2	D4	7.00
1, 2, 3, 4	8'	32'	277	57118	ESB/1040/14	1.25	325	1000	-20°F	1-16, 2-18, 3-5, 4-2	D4	7.00
4, 5, 6	16'	36'	120	57120	ESB/0848/46	3.30	370	860	-20°F	4-4, 5-1, 6-1	D4	7.02
4, 5, 6	16'	36'	277	57120	ESB/0848/46	1.36	365	860	-20°F	4-4, 5-1, 6-1	D4	7.02

T12/HO

1, 2	2'	16'	120	57114	ESB/0216/12	1.20	131	800	-20°F	1-3, 2-17	D2	2.88
1, 2	2'	16'	277	57114	ESB/0216/12	0.50	132	800	-20°F	1-3, 2-17	D2	2.88
1, 2, 3, 4	4'	32'	120	57116	ESB/0432/14	2.40	267	800	-20°F	1-17, 2-19, 3-6, 4-3	D3	4.46
1, 2, 3, 4	4'	32'	277	57116	ESB/0432/14	1.00	267	800	-20°F	1-17, 2-19, 3-6, 4-3	D3	4.46
1, 2, 3, 4	10'	40'	120	57118	ESB/1040/14	3.00	352	1000	-20°F	1-16, 2-18, 3-5, 4-2	D4	7.00
1, 2, 3, 4	10'	40'	277	57118	ESB/1040/14	1.30	349	1000	-20°F	1-16, 2-18, 3-5, 4-2	D4	7.00
4, 5, 6	8'	48'	120	57120	ESB/0848/46	3.50	410	860	-20°F	4-4, 5-1, 6-1	D4	7.02
4, 5, 6	8'	48'	277	57120	ESB/0848/46	1.50	405	860	-20°F	4-4, 5-1, 6-1	D4	7.02

See following page for case dimensions and wiring diagrams.

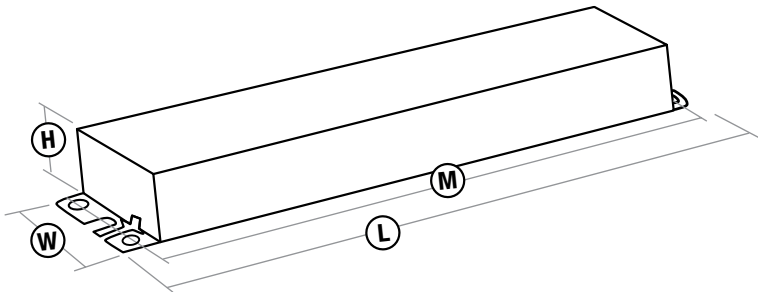
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T8/T12 High Output

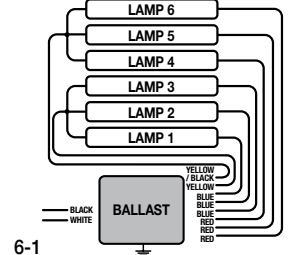
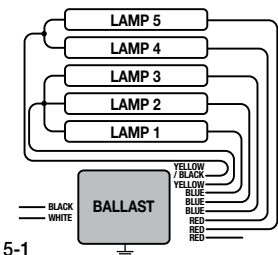
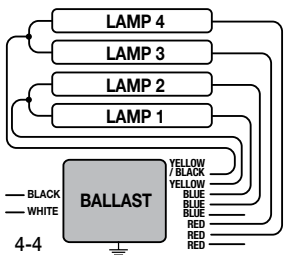
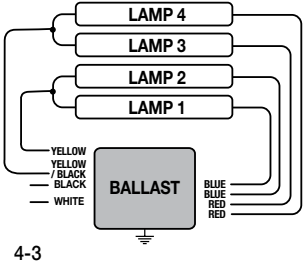
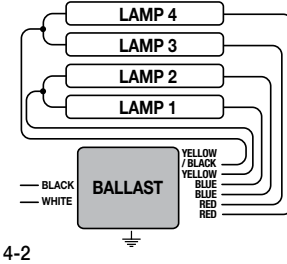
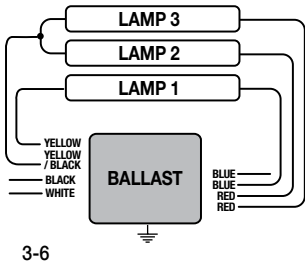
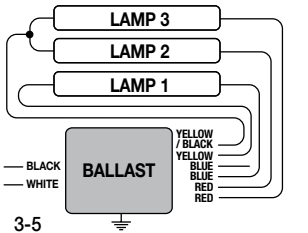
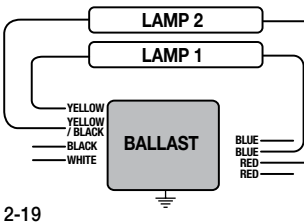
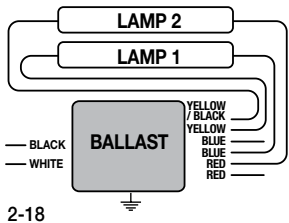
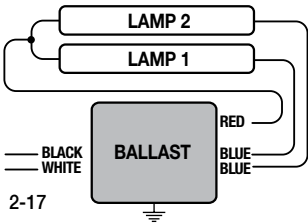
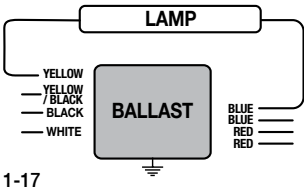
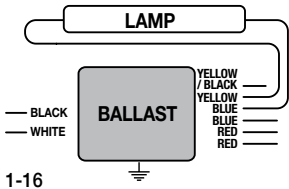
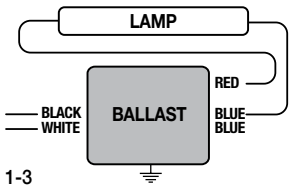
Case Dimensions

Drawing #	Overall (L)	Width (W)	Height (H)	Mounting (M)
D2	9.50"	2.36"	1.70"	8.90"
D3	11.65"	3.15"	1.85"	11.00"
D4	14.45"	3.23"	2.20"	13.75"

Case Diagram



Wiring Diagrams



ELECTRONIC SIGN BALLASTS

Cross Reference Guide and Lamp Compatibility Specifications

HALCO	ADVANCE	UNIVERSAL/ MAGNETEK	HOWARD
ESB/0216/12	ASB-0412-12-E	ESB216-12	-
ESB/0432/14	ASB-1232-24-E	ESB432-14	-
ESB/0848/46	ASB-2048-46-E	ESB848-46	EBO-6-8-48
ESB/1040/14	-	ESB1040-14	EBO-4-10-40

ESB/0216/12 57114

Lamp Type	# of Lamps		Lamp Footage	
	Min	Max	Min	Max
T12/HO	1	2	2'	16'
T8/HO	1	2	2'	12'

ESB/0432/14 57116

Lamp Type	# of Lamps		Lamp Footage	
	Min	Max	Min	Max
T12/HO	1	4	4'	32'
T8/HO	1	4	4'	24'

ESB/0848/46 57120

Lamp Type	# of Lamps		Lamp Footage	
	Min	Max	Min	Max
T12/HO	4	6	8'	48'
T8/HO	4	6	16'	36'

ESB/1040/14 57118

Lamp Type	# of Lamps		Lamp Footage	
	Min	Max	Min	Max
T12HO	1	4	10'	40'
T8HO	1	4	8'	32'