




Compact SE Ballasts for T5 Twin Tube Lamps

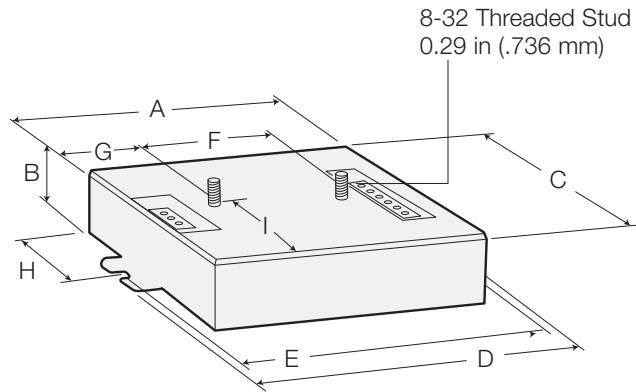
Lamp	Lamps per ballast	Model	Case Size	Input Voltage (~)	Input Current (A)	Input Power (W)	Ballast Factor (BF)	System Lumens (lm)	System Efficacy (lm/W)	Ballast Efficacy Factor	Relative Efficacy (RSE)
FT50 22.5 in (571 mm) 	1	EC3 T550 G U 110	G	277	0.20	55.4	1.0	4000	72	1.81	0.90
				240	0.23	54.0	1.0	4000	72	1.85	0.93
				120	0.45	54.0	1.0	4000	74	1.85	0.93
	2	EC3 T550 G U 210	G	277	0.36	99.7	1.0	8000	80	1.00	1.00
				240	0.42	100.8	1.0	8000	79	0.99	0.99
				120	0.84	100.8	1.0	8000	79	0.99	0.99
FT40 22.5 in (571 mm) 	1	EC3 T540 G U 110	G	277	0.16	44.3	1.0	3100	70	2.26	0.90
				240	0.18	43.2	1.0	3100	72	2.31	0.93
				120	0.36	43.2	1.0	3100	72	2.31	0.93
	2	EC3 T540 G U 210	G	277	0.27	74.8	1.0	6200	83	1.34	1.07
				240	0.32	76.8	1.0	6200	81	1.30	1.04
				120	0.64	76.8	1.0	6200	81	1.30	1.04
	3	EC3 T540 G U 310	G	277	0.40	111.3	1.0	9300	84	0.90	1.08
				240	0.47	112.4	1.0	9300	83	0.89	1.07
				120	0.95	113.2	1.0	9300	82	0.88	1.06
FT39 FT36 15.5 in (394 mm) 	1	EC3 T536 G U 110	G	277	0.14	38.8	1.0	2850	74	2.57	0.93
				240	0.17	39.6	1.0	2850	72	2.53	0.91
				120	0.33	39.6	1.0	2850	72	2.53	0.91
	2	EC3 T536 G U 210	G	277	0.26	72.0	1.0	5700	79	1.39	1.00
				240	0.31	73.2	1.0	5700	78	1.37	0.98
				120	0.61	73.2	1.0	5700	78	1.37	0.98



Job Name:	Model Numbers:	
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Case Dimensions

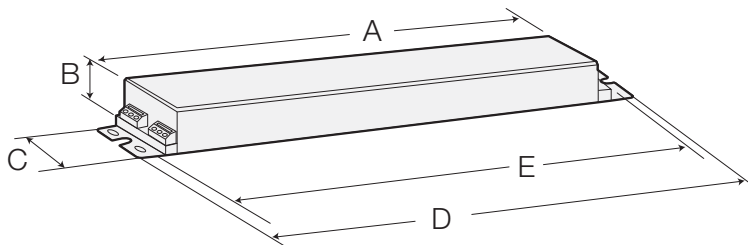
A¹



- A 4.20 in (107 mm)
- B 1.00 in (25 mm)
- C 3.00 in (76 mm)
- D 4.90 in (124 mm)
- E 4.60 in (117 mm)
- (mounting centers)
- F 2.00 in (51 mm)
- G 1.08 in (27 mm)
- H 1.60 in (41 mm)
- I 1.39 in (35 mm)

¹ Mounting studs standard. When ordering, delete suffix -S in the ballast model number if mounting studs not needed.

G



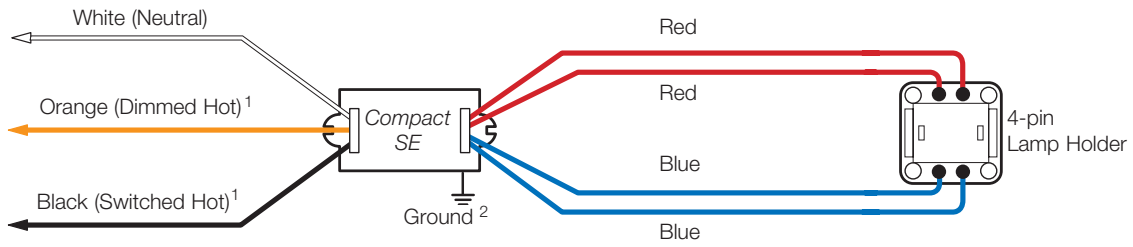
- A 7.13 in (181 mm)
- B 1.00 in (25 mm)
- C 2.38 in (60.5 mm)
- D 9.50 in (241 mm)
- E 8.91 in (226 mm)
- (slot mounting centers)

If using four hole mount, mounting centers are 9.00 in (229 mm) x 1.06 in (27 mm).

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Wiring Diagrams

One compact fluorescent lamp



¹ Dimming control wire colors do not necessarily match ballast wire colors (e.g. control “dimmed hot” may be yellow and ballast “dimmed hot” may be orange). Wire colors shown are for Lutron controls and ballasts only.

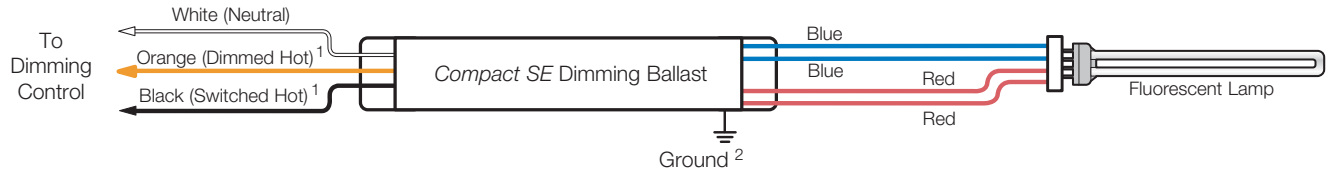
² Ballast and lighting fixture must be effectively grounded.

Note: For T4 compact lamps, maximum lamp-to-ballast wire length is 3 ft (1 m).

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Compact SE Wiring Diagrams

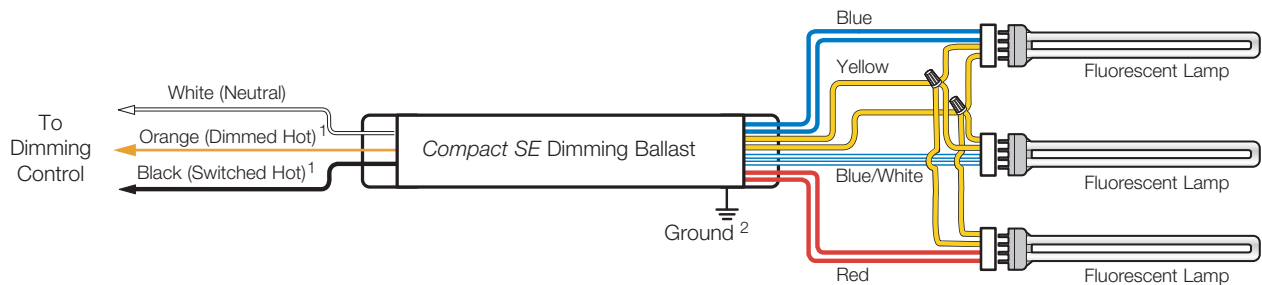
One T5 twin-tube lamp



Two T5 twin-tube lamps



Three T5 twin-tube lamps



¹ Dimming control wire colors do not necessarily match ballast wire colors (e.g. control 'dimmed hot' may be yellow, and ballast 'dimmed hot' may be orange). Wire colors shown are for Lutron ballasts and controls only.

² Ballast and lighting fixture must be effectively grounded.

Note: For T5 twin-tube lamps, maximum lamp-to-ballast wire length is 3 ft (1 m).

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ATTENTION ELECTRICIANS AND CONTRACTORS

Ballast/Socket Leads

Lead lengths from ballast to socket must not exceed 3 ft (1 m) for T4 and T5 twin-tube lamps.

Lamp Sockets

Quality lamp sockets are required to ensure positive lamp-pin to socket contact. T4 compact sockets must be the 4 pin type, and must be used with 4 pin compact lamps. T5 twin-tube lamps require sockets that lock into the lamp base and provide proper lamp support to hold lamp pins in full contact with socket.

Lamp Mounting for T5 Twin-Tube

Many fluorescent lamp sockets are available with mounting slots to vary the height of the lamp away from the grounded metal surface. Use these slots to keep the outside edge of the lamp at least 1/4 in (6.3 mm) away from the grounded metal surface.

Having a fluorescent lamp too close to the grounded metal will make the minimum intensity too low and will reduce lamp life.

Wiring and Grounding

All wiring from the dimming control to *Compact SE* ballasts is line voltage wiring and may be run together in the same conduit.

Ballast and lighting fixture must be effectively grounded. Ballasts must be installed per national and local electrical codes.

Number of Ballasts Per Control

To calculate the maximum number of ballasts allowed per control, divide control’s current capacity by individual ballast current. Certain controls allow a specific maximum number of ballasts.

Ballast Operating Temperature

Ballast case temperature must not exceed 167 °F (75 °C) at any point on ballast.

ATTENTION FACILITIES MANAGERS

PERFORMANCE

Lamp Seasoning Requirements

Some fluorescent lamp manufacturers recommend that new fluorescent lamps be operated at full output (“seasoned”) before they can be dimmed, to render lamp impurities inert, ensuring proper dimming performance and average rated lamp life. Please contact your lamp manufacturer for seasoning requirements.

SERVICE

Replacement Parts

Use replacement parts with exact Lutron model numbers. Consult Lutron if you have any questions.

Further Information

Ballasts for other lamp types and voltages are available. Consult Lutron’s Fluorescent Dimming Systems Selection Guide (P/N 366-002).

For further information, please visit us at <http://www.lutron.com/ballasts> or contact our 24-hour Technical Support Center at 1.800.523.9466.

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