

IMPORTANT

Read carefully before installing.

NEON DIMMERS, all UL Listed, 120V 60Hz.

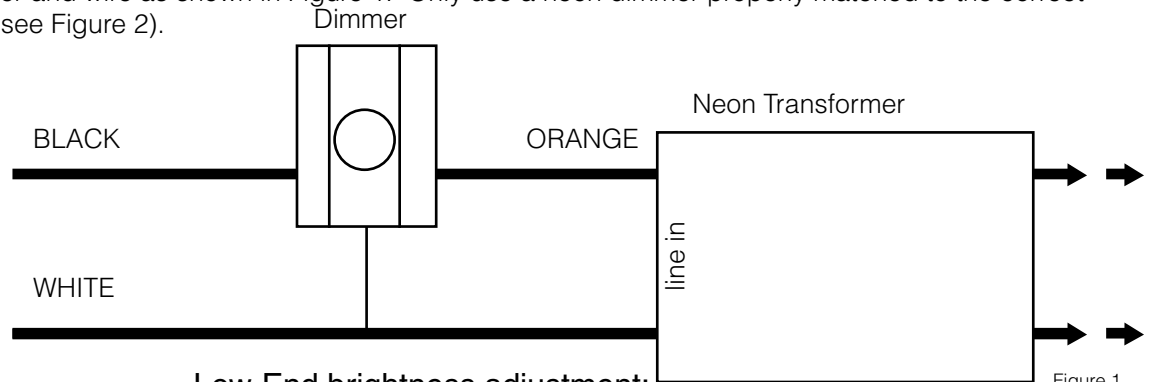
NE 5 500 VA, 4.2 Amps, Single Gang, field adjustable trim.

NE 10 1,000 VA, 8.3 Amps, Single Gang, field adjustable trim.

NE 15 1,500 VA, 12.5 Amps, Double Gang, field adjustable trim.

INSTALLATION

Carefully install the dimmer and wire as shown in Figure 1. Only use a neon dimmer properly matched to the correct transformer Amp. rating (see Figure 2).



Low-End brightness adjustment:

The low-end brightness is factory adjusted. If not satisfactory, it may be trimmed as follows: 1) Rotate dimmer control knob to full clockwise position (with unit turned on). 2) Remove dimmer control knob and face plate. 3) Adjust trim to desired brightness with a screwdriver.

**USE THIS CHART TO SELECT
THE CORRECT DIMMER MODEL**

- 1) Locate the Amp rating for the transformer to be used.
- 2) Check the Amp rating of the dimmer and match it to the transformer Amp rating. Always use a dimmer with a higher transformer Amp rating.
- 3) One dimmer can dim several transformers. The total Amps of all transformers cannot exceed the Amp rating for the dimmer used.

NOTE:

- 1) Do not use the dimmers with high power factor transformers.
- 2) Care should be taken to avoid underloading transformers when dimmer is used.
- 3) Lead wire lengths between transformers and electrode ends should be added to tubing footage when determining transformer loading to insure adequate dimming range.
- 4) Flickering neon may harm the transformers.
- 5) Read the instructions in the box provided before installation.
- 6) Turn off the power before installing the dimmers.
- 7) Dimmers may not be effective in dimming units with transformers which are rated below 5,000 Volts or less than 20 mA.

OPEN CIRCUIT SECONDARY VOLTAGE (VOLTS)	SHORT CIRCUIT SECONDARY CURRENT (mA)	CAPACITY	
		VOLT AMPERES	AMPS
15,000	120	1,800	15
	60	900	7.5
	30	450	3.75
	20	290	2.41
12,000	120	1,440	12
	60	720	6
	30	380	3
	20	240	2
9,000	120	1,800	9
	60	540	4.5
	30	270	2.25
	20	180	1.5
7,500	120	900	7.5
	60	450	3.75
	30	225	1.87
	20	150	1.25
6,000	120	720	6
	60	360	3
	30	180	1.5
	20	120	1
5,000	120	600	5
	60	300	2.5
	30	150	1.25
	20*	100	.83
4,000*	60*	240	2
	30*	120	1
	20*	80	.66
3,000*	60*	180	1.5
	30*	90	1.5
	20*	60	1.5
2,000*	30*	60	1.5
	20*	40	1.5

*Not recommended for use with dimmers.

Figure 2

SUGGESTED DIMMING LUMINOUS TUBE FOOTAGE CHART

TRANSFORMER RATINGS			NORMAL MAXIMUM FEET OF TUBING OPERATED (Based on average grade of tubing)													
SECONDARY VOLTAGE, VOLTS	SHORT-CIRCUIT CURRENT, MILLIAMPERES	INPUT AT SECONDARY SHORT CIRCUIT, VOLT-AMPERES	CLEAR OR FLUORESCENT RED (TUBE SIZE, MILLIMETERS)							CLEAR OR FLUORESCENT MERCURY FILLED TUBES, ALL COLORS, INDOOR APPLICATIONS (TUBE SIZE, MILLIMETERS)						
			15	14	13	12	11	10	9	15	14	13	12	11	10	9
15,000	30	450	43	40	37	33	29	24	20	57	51	48	43	37	32	25
12,000	30	350	33	31	29	26	22	19	16	44	40	37	33	29	24	20
9,000	30	270	25	22.5	21.5	19.5	16.5	14	11	32	29	26.5	25	21	18	14.5
	20	180	21	19.5	18	16.5	13.5	11	9.5	27	24.5	23	20.5	17.5	14.5	12.5
7,500	30	225	18	17	16.5	15	12	9.5	8	22.5	21.5	21	19	15	12.5	9.5
	20	150	16.5	15.5	15	13.5	10.5	9	7.5	20	20	18.5	16.5	13.5	10.5	8.5
6,000	30	180	14	13.5	12.5	12	9.5	8	7	18.5	16.5	16	14.5	12	9.5	8.5
	20	130	12.5	12	11	10.5	7.5	6.5	5	16	15	13.5	12.5	9.5	8.5	6.5
5,000	30	160	12.5	12	11	9	7.5	6.5	5	15	15	12.5	11	9.5	9	6.5
	20	100	10.5	9.5	9.5	8	6	5	4.5	13.5	12	12	10.5	8	6.5	5.5
4,000	30	140	10	9	8	7.5	6	5	4.5	13	11	10.5	9.5	8	6.5	5.5
	20	90	8	7.5	7.5	6.5	5	4.5	4	10.5	9.5	9.5	8.5	6.5	5.5	5
3,000	30	100	7.5	6.5	6.5	6	5	5	4	9.5	8	8	8	6.5	6	5
	20	75	6	6	5	5	4	3	3	8	7	6.5	5.5	5	4	4
2,000	30	75	5	4.5	4.5	4.5	4	3	3	7	6.5	6.5	5.5	4.5	4	4
	20	50	4.5	4	4	4	3.5	3	3	5.5	5.5	5.5	5	4	3	3
Recommended gas pressure, mm/Hg			9	10	10	11	12	13	15	9	10	10	11	12	13	15



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