

**Type:**  
**Job:**  
**Transformer Catalog number:**

**Transformer Options:**

**Approvals:**

Transformer

Ordered Separately from Transformer

**Date:**  
**Page: 1 of 4**

## Specifications

**Enclosure:** Formed 16 ga. stainless steel enclosure with integral hinge. Cover is secured with two stainless steel screws. A through hole is provided in the bottom edge for a padlock (by others). 1/2" knockouts on each side of the enclosure are provided for hardwiring or accessory photocell mounting.

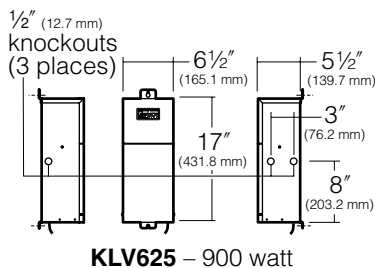
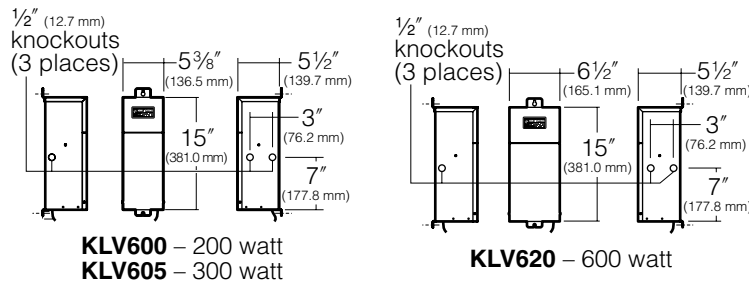
**Transformer:** Core and coil type fully epoxy encapsulated. Output is multi-tap 12V / 13V / 14V / 15V. The 200 and 300-watt units have single circuit output, the 600-watt unit has two circuits for output. Variable taps provide flexibility in system design with the 12 volt tap for fixtures near the transformer location and higher voltages for more remote fixtures.

**Terminal Block:** 80-amp euro-style terminal block.

**Circuit Breaker:** 25 amp magnetic circuit breaker (1) per circuit.

**Cord:** Six foot, heavy duty outdoor power cord is provided and installed.

**Certification:** UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.



HUBBELL LIGHTING, INC.

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## Above Grade Transformers

### ORDERING INFORMATION

Cat. No.	Description	Input	Cord
<input type="checkbox"/> KLV600	200 watt (1) circuit	120V	#18-2 SJTW
<input type="checkbox"/> KLV605	300 watt (1) circuit	120V	#18-2 SJTW
<input type="checkbox"/> KLV620	600 watt (2) circuits	120V	#18-2 SJTW
<input type="checkbox"/> KLV625	900 watt (3) circuits	120V	#12-3 SJTW
<input type="checkbox"/> No Option			

**NOTE:** Output wattage is not to exceed 25 amps on each circuit. Weather conditions must be considered when determining load on transformers, hot weather areas should reduce the output wattage to prevent heat build-up on circuit breakers. The voltage at each fixture must not exceed 12 volt. Load and distance must be considered when determining which voltage tap to use. A good maintenance program is required to replace lamps as they burn out to prevent over-voltage of remaining lamps.

### Above-Grade

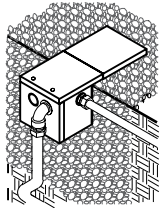
**Transformer Accessories** (Ordered separately from fixture)

Cat. No.	Description
<input type="checkbox"/> KLV-PC1	<b>Photocell</b> , Direct mount to enclosure knockout in right-hand side of transformer enclosure.
<input type="checkbox"/> KLV-PC2	<b>Photocell</b> , Remote mount with 10' cord for installation in any 1/2" NPT cover plate (by others).
<input type="checkbox"/> KLV-TC24	<b>Plug-in Time Clock</b> , Plugs into receptacle provided in transformer enclosure.

Type:

Job:

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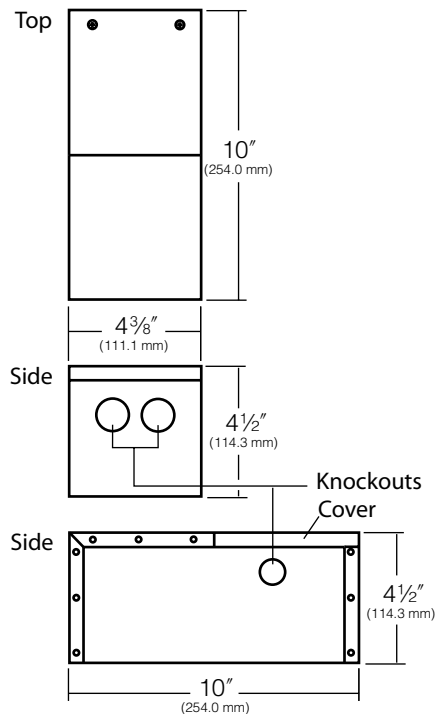
## In-grade Transformers

### Specifications

**Enclosure:** Epoxy encapsulated in a stainless-steel burial enclosure.

**KLV640** 300W toroidal transformer has 120V (only) input and a 12V / 13V / 14V / 15V multi-tap output. **KLV660** 300W toroidal transformer has a 277V input and a single 12V output. **KLV645** 600W toroidal transformer has a 120V (only) input and a dual 300W 12V / 13V / 14V / 15V multi-tap output. **KLV665** 600W toroidal transformer has a 277V input and a dual 12V output. Variable taps provide flexibility in system design with the 12 volt tap for fixtures near the transformer location and higher voltages for more remote fixtures.

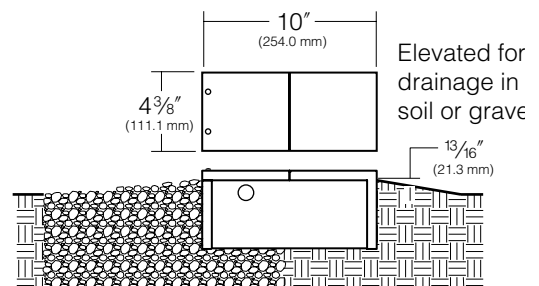
**Certification:** UL Listed to U.S. and Canadian safety standards for wet locations.



### ORDERING INFORMATION

Cat. No.	Description	Input
<input type="checkbox"/> <b>KLV640</b>	300 watt (1) circuit	120V
<input type="checkbox"/> <b>KLV660</b>	300 watt (1) circuit	277V
<input type="checkbox"/> <b>KLV645</b>	600 watt (2) circuits	120V
<input type="checkbox"/> <b>KLV665</b>	600 watt (2) circuits	277V
<input type="checkbox"/> <b>No Option</b>		

**NOTE:** Output wattage is not to exceed 25 amps on each circuit. Weather conditions must be considered when determining load on transformers, hot weather areas should reduce the output wattage to prevent heat build-up on circuit breakers. The voltage at each fixture must not exceed 12 volt. Load and distance must be considered when determining which voltage tap to use. A good maintenance program is required to replace lamps as they burn out to prevent over-voltage of remaining lamps.



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Type:  
Job:  
Cable Catalog number:

**Approvals:**

Cable

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## Specifications

The greatest benefit of installing a low voltage lighting system is the ability to conceal the flexible electrical cable directly under as little as 6" of soil cover, without the need for conduits or raceways.

**Voltage drop** for KLV600 series transformers is a function of cable size, circuit length and connected fixture wattage. In order to attain good lumen output, it is recommended that each fixture be provided a minimum of 10 volts. Use the chart below to estimate the cable size required and maximum circuit distance allowable to maintain 10 volts to the farthest connected fixture on a cable run.

Copper stranded landscape cable, black, UL recognized.

### 200 WATT TRANSFORMER

Total Fixture Watts	Cable Size	200 watt		
		50 watt	100 watt	150 watt
Max. Circuit Distance	#8-2	300'	200'	125'
	#12-2	175'	90'	60'

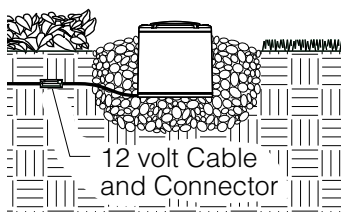
### 300 Watt / 600 WATT<sup>1</sup> / 900 WATT<sup>2</sup> / TRANSFORMERS

Total Fixture Watts	Cable Size	300 watt			
		100 watt	150 watt	200 watt	250 watt
Max. Circuit Distance	#8-2	300'	200'	125'	100'
	#12-2	100'	75'	60'	50'

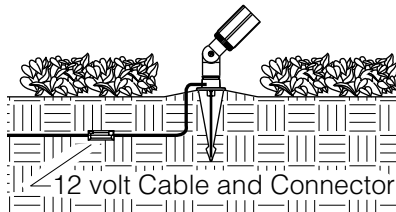
<sup>1</sup>600 watt transformer consists of (2) 250 watt branches, requiring a minimum of (2) branch circuit cable runs.

<sup>2</sup>900 watt transformer consists of (4) 250 watt branches, requiring a minimum of (4) branch circuit cable runs.

**Cable Installed In-grade**  
In-grade Mount



**Cable Installed In-grade**  
Kim Accent or Path Light



### ORDERING INFORMATION

- | Cat. No.                           | Description                |
|------------------------------------|----------------------------|
| <input type="checkbox"/> KLV427    | 500' – #12-2 12 Volt Cable |
| <input type="checkbox"/> KLV432    | 500' – #8-2 12 Volt Cable  |
| <input type="checkbox"/> No Option |                            |



**KLV427 #12-2 Cable**



**KLV432 #8-2 Cable**

**NOTE:** See pages 3 - 4 for Variable Voltage Transformers which provide a 12 volt tap for fixtures near the transformer, and higher voltages for more remote fixtures.

Type:  
Job:  
Connector Catalog number:

**Approvals:**

Connector

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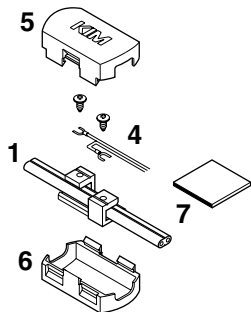
## Specifications

Connectors may be buried, installed at grade, or surface mounted. They are designed to eliminate the common problem of corrosion and oxidation of the connections, which can cause power interruption. Injection molded in black Valox®, the two-piece connectors have stainless steel screws.

The standard sealed connector, **KLV410**, is for connecting one fixture to the cable.

The standard connector employs piercing screws, and the branch connector utilizes compression type connectors and brass bussbars.

All connections are totally sealed and waterproofed with the dielectric mastic provided. Maximum design flexibility is assured since fixtures can be easily added or relocated by installing a new sealed connector.



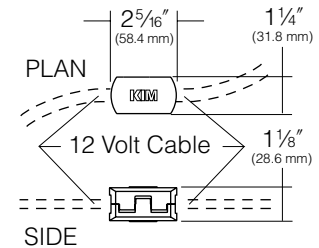
**KLV410**  
Sealed Connector

1. Main 12 volt cable #8 or #12
2. Brass buss bars
3. Branch cables
4. Fixture cable with fork connectors
5. Connector top
6. Connector bottom
7. Dielectric mastic

## ORDERING INFORMATION

Cat. No.	Description
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- |                          |                                |
|--------------------------|--------------------------------|
| <input type="checkbox"/> | <b>KLV410</b> Sealed Connector |
| <input type="checkbox"/> | <b>No Option</b>               |



**KLV410** Sealed Connector