



CAUTION!

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IMPORTANT NOTICE

1. CONNECT IGNITER POWER TO 24 VAC POWER ONLY; NEVER CONNECT TO 120 VAC.
2. DO NOT SHORT 24 VAC IGNITER INPUT POWER LEADS TO GASLIGHT CHASSIS.
3. KEEP PHOTO-SENSOR LEADS WELL SEPARATED (>.75 INCH) FROM THE HIGH VOLTAGE LEAD.

ALL WARRANTIES ARE VOID IF THE ABOVE INSTRUCTIONS ARE VIOLATED.



IMPORTANT INFORMATION FOR END USER INSTALLER

- **USE WITH 24 VAC TRANSFORMER ONLY**
- Connecting directly to 120VAC or hooking up transformer backwards will damage unit and void warranty
- **DO NOT** short 24V wires to chassis or earth ground; the 24 VAC power must be floating from the output of the transformer
- It is recommended that an inline fuse be installed at the transformer in one 24 VAC input line

**The igniter power input circuitry has been designed to protect the igniter against improper hook-up. It will withstand a short; however, the igniter will not work until it is properly powered without any shorts to chassis or earth ground. If the 24 VAC lead has been shorted, the igniter will shut down to prevent damage. The short must be cleared and 24 VAC power verified before powering up again.

**This modification will not protect against hook up to 120 VAC or hooking the transformer up backwards; doing this will void warranty.

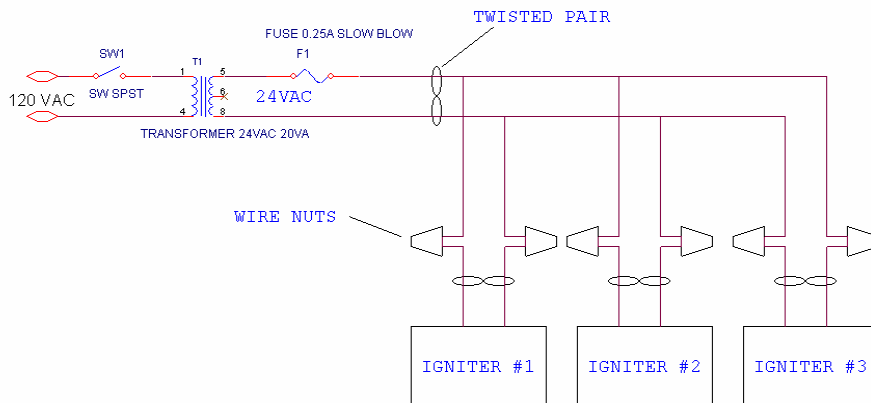
For questions and technical support please call 651-636-1008.

Igniter Installation



Hookup Diagram

MODEL: KNA1-24A-S HOOKUP DIAGRAM



Knightronix™ Knightlighter Gaslight Igniter

24VAC Open Flame Burner Edition

QuickStart Installation and Operating Instructions



Final Set-up

1. Align the igniter and position daylight sensor (photo sensor on yellow and black twisted wires) so the daylight sensor is not pointed toward any bright lights (street lights, Holiday lights, etc.)
2. The daylight sensor must have a clear view of daylight for the lamp to shut off during the day.
3. Be sure that the daylight sensor does not view the lamp flame or reflections off the glass.
4. The back of the daylight sensor is also sensitive to light; cover it with a sheath or with black electrical tape so the lamp does not shine on the back side of the plastic sensor.
5. Check the alignment of the flame sensor; verify that it is pointed up toward the position of the flame. If necessary, apply sheath to flame sensor.
6. Check the alignment of the ignition probe (see Probe Alignment Instructions).
7. Check the gas line for leaks using bubble water solution or a gas detector around the fittings. If any leaks are present, correct them before powering the igniter. Turn on the gas.
8. Replace the glass in the gaslight.
9. Proceed to Operational Checkout instructions.

KNIGHTRONIX™ DIRECT WIRE HIGH VOLTAGE PROBE

The Direct Wire™ high voltage probe uses a NiChrome wire that runs directly from the high voltage transformer to the spark gap at the side of the burner slit.



Final Probe Alignment:

Align the Direct Wire™ probe so that it is just within the Flame Boundary and perpendicular to the slit near the base of the burner tip; the probe gap should be approx. 3/16" for proper sparking. Make sure the probe wire does not extend out in front of the burner more than 1/4". Probe wire should be slightly bent around to the side (away from burner) so that the spark will come off the side of the wire and direct the spark to the brass tip at the slit area; the igniter will not light reliably if the wire sparks from the end. It is important that wire sparks from the side rather than the end of the wire.

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Operational Checkout

Operational Checkout of the Automatic Gaslight

1. Cover the flame sensor and the daylight sensor with black tape or otherwise to simulate darkness.
2. Turn on power to igniter.
3. Sparks shall appear across the spark probe to the pilot burner ring (mantle configurations), burner tip (open flame configurations) and the solenoid valve shall open. The gaslight shall light.
4. Remove the tape from the flame sensor and the gaslight shall remain lit.
5. Remove the tape from the daylight sensor and the lamp shall go out in about 5 minutes. Replace the glass panels.
6. This completes the gaslight checkout. It is ready to operate.



The Engineering Edge

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Probe Alignment