

**Features**

- Filtered/Regulated 24 Volts DC
- Up to Full 2 Amps Load Capacity
- Class 2 Rated Outputs
- Overload, Over Voltage, and Short Circuit Protection
- Automatically Accepts 120VAC or 240 240VAC Input Without Requiring to Move Jumpers or Set Dip Switches
- Controls EL (Fail Safe) or EU (Fail Secure) Locking Devices
- Interface Relay Isolates Locking device current from control switch
- Auxiliary 24VDC Constant Voltage Output for Powering Stand Alone Devices, Such as Keypads, Motion Detectors, and Status Indicators
- Surge Suppression on Fail Safe and Fail Secure Outputs
- UL Listed and Tested to 294 Standard for Access Control System Units

Installing 8Q00314

- 1** The unit must be mounted indoors and away from any moist or wet areas. Some common locations for mounting the 8Q00314 would be in the plenum near the door containing the electric locking device, or in a nearby closet or electrical room.
- 2** When installing the unit in the plenum, wires must either be of plenum rating or contained inside conduit. The unit must be mounted in a vertical position with the power supply module located at the top, as shown in the photograph above.
- 3** Four 1/4" holes are provided for mounting the box to the wall or other rigid surface. If the surface material is wood, it must be at least 1" thick. Use either a truss or panhead, 1" long sheet metal screw (#10 or larger) for fastening the box to the wood surface. When mounting the unit to 1/2" or 5/8" dry wall, it is recommended that 3/16" or 1/4" diameter toggle bolts be used for maximum support. Use the same size toggle bolts for mounting the unit to hollow concrete blocks.
- 4** For mounting to concrete, solid block, or brick, it is recommended to use 1-3/4" long (min.) x 1/4" diameter hex head bolt anchors (sometimes called power-bolts) in a 18-8 stainless steel or Grade 5 zinc-plated steel. The sub plate can be removed from the box for easier access to the mounting holes. To remove the subplate, locate the four #6 locknuts near each corner of the plate and remove. The 6-32 studs, from which the sub plate mounts to, are held in place to the box by threaded standoffs.

Wiring the AC Input

The 8Q00314 power supply is rated for use with a 20 amp branch circuit and is capable of accepting either 120 VAC or 240VAC input without the need for making any changes, or reconfiguring to convert from one input voltage to the other. Because the power supply module contains Class 2 double insulation, an earth ground wire is not required. For wiring 120VAC or 240VAC input, run 14 AWG 2-conductor to the power supply module's input terminals marked L (Line) and N (Neutral). Ensure that the conductors are fully inserted into the input terminals with no bare metal exposed. (Refer to the wire stripping instructions included on the wiring diagram attached to the cover plate of this power supply).

CAUTION! It is important to maintain separation between the primary (high voltage AC) wiring and secondary (low voltage DC) wiring as they are routed inside the power supply enclosure. All secondary wiring must be routed through any one of the knockouts located along the bottom wall of the enclosure. The primary wiring must be run inside conduit; and the conduit must be connected to one of the knockouts located towards the left end of the top wall of the enclosure (above and to the left of the power supply module's input terminals).



This unit is not equipped with a battery standby power feature.