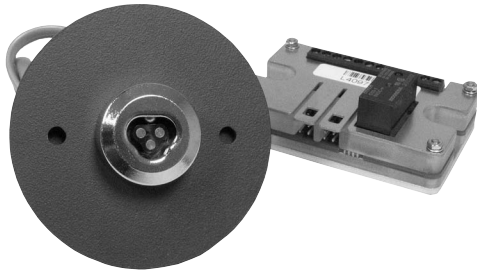


Electronic Switch with Relay

Part number: CL-ES2



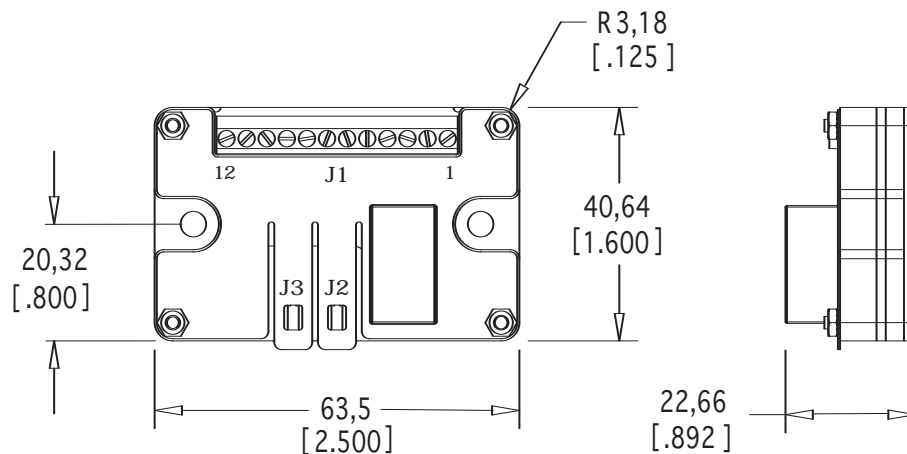
The electronic switch is a CyberLock-based product that provides authorization control and an audit trail for an electric circuit. A CyberKey receptacle is mounted on a round steel plate. The CyberLock electronics are in a separate module. A cable carries the signal from the contact point to the electronics module. This module can be mounted in an electrical box or in a more secure location up to 18 inches away from the contact point.

The CyberLock electronic switch can be set up to turn on or turn off a circuit when a key is authorized. The electronics module uses a relay that can handle the voltage spikes that occur in some systems.

Applications include an electric door latch, a vehicle ignition, or other electric devices that need authorization control and/or an audit trail.

Special CyberAudit settings:

- Some applications of the electronic switch might require leaving a CyberKey in the contact point for long periods. A CyberKey normally beeps once every minute if left in a lock. CyberAudit can prevent this by disabling the key's beeper.
- CyberAudit can set keys to record the time they are removed from a lock. This gives an exact on and off time in the logs for the circuit controlled by the CL-ES2.

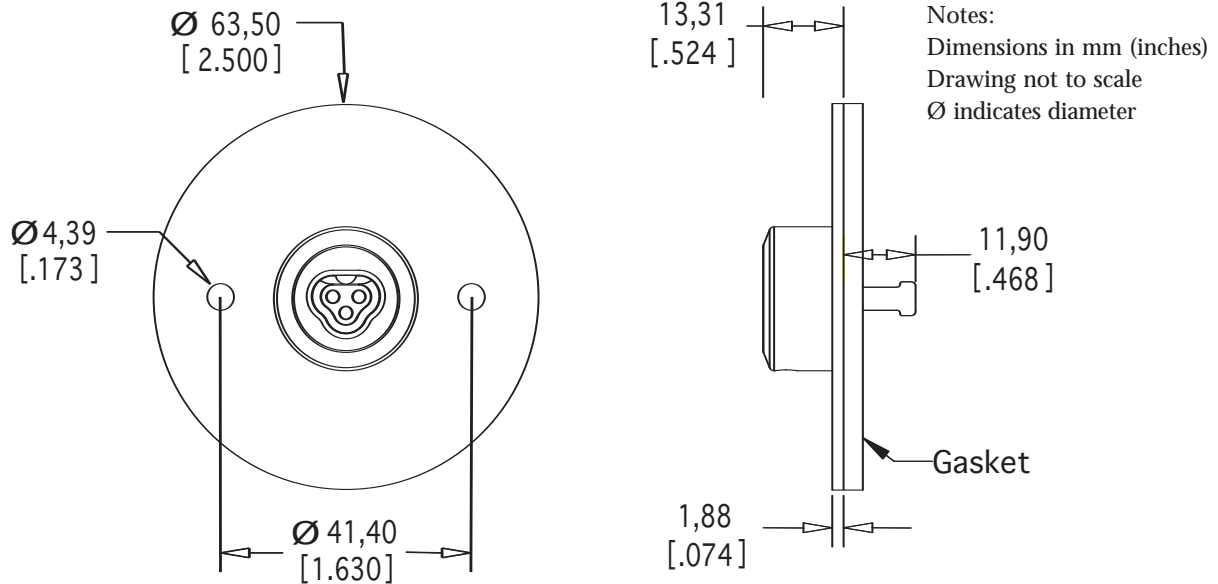


J1 Terminal functions: Position the electronics module so that the screw heads are facing up and the terminals are in a horizontal line on the upper side. The screw terminals are numbered from right to left.

Terminal 1	Power Input 1. One power supply wire connects here. Internally connected to Terminal 3.
Terminal 2	Power Input 2. One power supply wire connects here. Internally connected to Terminal 4.
Terminal 3	Power Input 1. Internally connected to Terminal 1.
Terminal 4	Power Input 2. Internally connected to Terminal 2.
Terminal 5	Relay, normally open, no connection (access changes this line to closed, connects to Terminal 6).
Terminal 6	Relay, common (connected to controlled device).
Terminal 7	Relay, normally closed, connected to terminal 6 (access changes this line to open, breaks connection).
Terminals 8-12	Unused.
J2	Unused.
J3	CyberKey Port Receptacle.

Electronic Switch with Relay

Part number: CL-ES2



Specifications

CyberKey Receptacle	• Nickel-plated brass. Retains key.
Mounting Plate	• Stainless steel
Electronics Module	• Mounts in an electrical box or up to 18 inches away from contact point.
Operating Temperature	• -40° to 160° F; -40° to 70° C
Power Requirements	• None; power is supplied by the key's battery.
Electrical Specifications, Switched	• 12 to 24 VDC or 12 to 18 VAC, 5 amps max. Single pull, Double throw. Resists spikes of 60 V.
Hardware Security Features	• No keyway to pick. • Resists electric charge applied to the face of the lock.
Number of Keys per Lock	• No limit to the number of keys that the CL-ES2 can support.
Number of Locks per Key	• Up to 3300 locks can be accessed with a standard user key. • A Master key has no limit to the number of locks it can access.
Lost Keys	• The system can designate and disable lost keys.
Access Schedules	• Schedules programmed into the CyberKey provide complete control over specific days and times that a key will operate. A key can use up to 49 different schedules to access locks. • A database has no limit to the number of schedules it can manage. • Holidays may be set as exceptions to the schedules.
Audit Capacities	• The lock remembers the last 1100 events with date and time. • A key remembers up to 3900 events with date and time. It can be set to keep only the most recent set of events or to stop operating when its audit trail is full.
Electronic Security Features	• Key expiration – a begin/end date range can be set during which the key will work. • Delayed entry – a lock can be set to delay entry for up to 20 minutes. • Multiple key custody – a lock may be set to require up to 4 keys before opening.
Electronic Rekeying	• Rekeying a system is done via the software; no need to install new locks and issue new keys.