



EcoBolt

In-room energy saving solutions are a simple yet highly effective way to reduce electricity overheads. TLJ's EcoBolt utilises Bluetooth technology and the action of the lock's deadbolt to confirm when a room is occupied. The deadbolt can only be operated from inside the room, ensuring that power is only activated when a resident is present.

Unlike traditional wall-mounted card energy savers, the EcoBolt is built directly into the lock hardware, creating a seamless and tamper-free solution. When the deadbolt is engaged, a Bluetooth signal is sent to the paired wall-mounted relay to supply electricity. Once the deadbolt is released, a configurable timer ensures power continues for a set duration before switching off automatically.

The EcoBolt can also be configured to your specific requirements; for example, in cluster environments, the delay timer can maintain electricity for up to 45 minutes after the deadbolt is unlocked. A secondary relay output can also be used for devices on standby, such as air conditioning units or appliances that require a gradual power-down.

Features

- Fully compatible with all TLJ locksets and TLJ Qcloud and Qlite software platforms
- Simple installation
- Standard single gang back box size
- Blue LED arrow for easy locating
- Configurable timer between 10 seconds to 45 minutes



Applications

- Hotel, Spa resort & Leisure complex
- Student accommodation
- Residential
- Commercial office block

Benefits & Specifications

Voltage input	AC190V - 265V
Frequency	50Hz - 60Hz
Convenient time delay	10 - 15 seconds
Load Output current	Dual output - 2x 16Amps
Operating Temp	-10°C to 60°C
Operating Humidity	10 - 95% RH

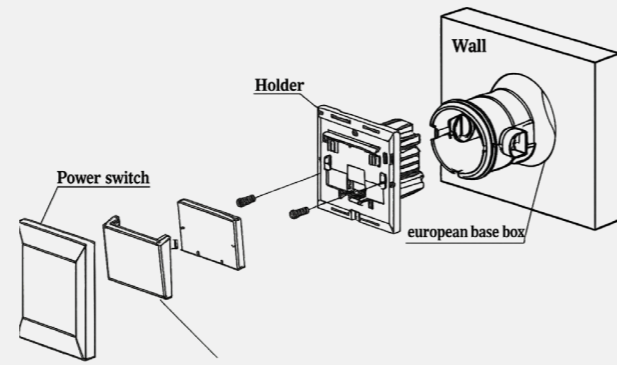
Acting as the intelligent energy control switch within each room, the TLJ EcoBolt ensures electricity is only used when required. By replacing traditional key-card systems with Bluetooth-enabled automation, the EcoBolt eliminates unnecessary power consumption without compromising comfort.

Accurate savings depend on occupancy patterns and energy tariffs, but typical results show significant reductions in wasted energy:

- Up to 35% reduction in room electricity usage
- Average annual saving of £188 per room (based on a 300-bed PBSA operating with all bills included)
- Payback period of less than 12 months for most installations

By activating power only when residents are inside their rooms, the EcoBolt contributes to lower carbon emissions, extended equipment lifespan, and substantial operational savings across large-scale developments.

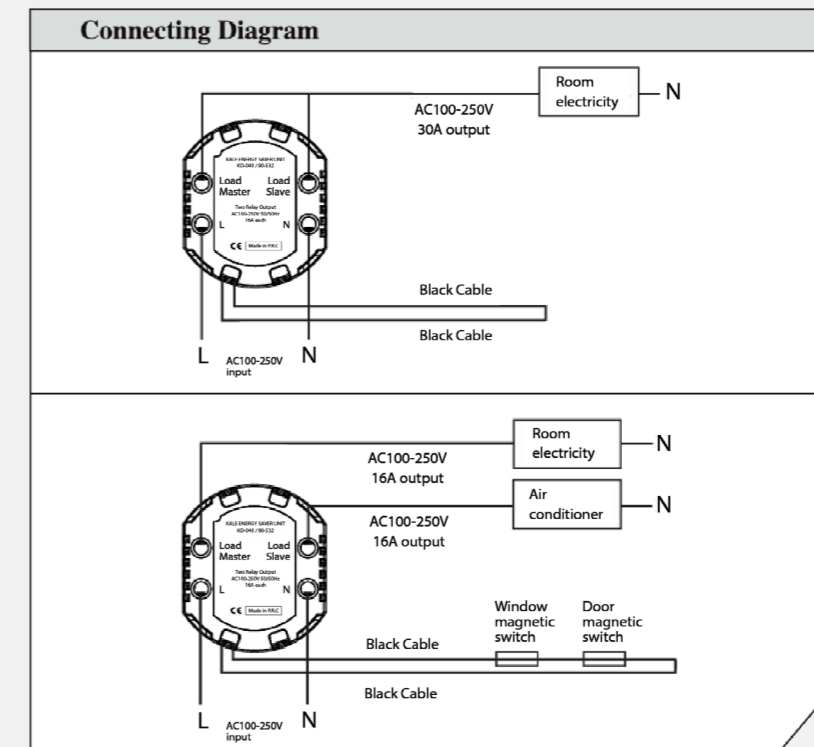
EcoBolt Installation.



The TLJ wall-mounted energy saving unit should be installed by a qualified electrician in accordance with local wiring regulations. The unit fits into a standard single gang back box with a minimum depth of 35mm and connects directly to the room's power circuit.

Important Notes

- Ensure cables are rated for at least 16A per output.
- The total load must not exceed the rated capacity of $2 \times 16A$.
- Do not install in areas exposed to moisture or excessive heat.
- For cluster or multi-room configurations, timer and relay behaviour can be configured via TLJ engineer setup.



Installation Steps

1. Power Isolation: Ensure the mains supply is turned off before installation.
2. Wiring: Connect live and neutral inputs to the L and N terminals, and load circuits to OUT1 and OUT2 as shown in the wiring diagram.
3. Mounting: Fix the holder into the wall's European base box, then connect and secure the power switch module into the holder.
4. Assembly: Attach the cover frame and ensure all connections are firmly seated.
5. Testing: Once installed, restore power and verify proper operation of both output channels and indicator LED.



Range of data carriers.



Mobile Keys



Keycards



Wristbands



Fobs

Frictionless access with mobile keys.

TLJ Mobile Keys™ are a secure digital access credential, removing the need for physical keycards. Keys are delivered directly to a user's smartphone and stored securely in the cloud with end-to-end encryption. Access is protected by the device's built-in security, including Face ID, fingerprint or passcode.

- > Seamless, contactless access
- > Secure mobile key delivery via:
 - The TLJ app
 - Custom white-label app
 - Integration with your existing app
- > Hands-free access
- > Keys can be stored in:
 - Apple Watch
 - Home screen widgets
 - Apple Wallet (*coming soon*)

[View the TLJ Software brochure to find out more](#)

Accreditations



EN14846:2008 - Electro mechanically operated locks EN50371:2012- RT&TTE, Low-power human RF exposure & European EMC, LVD directive.



Made in Britain is an internationally-recognised registered trademark which promotes and acknowledges the very best of British manufacturing.



Third-party certification body that assures performance, quality, reliability and traceability of fire protection products. Recognised by regulatory authorities worldwide, it is an internationally respected mark of fire safety and one of the most authoritative in the industry.



Z-Wave Alliance approved, smart home wireless protocol with the convenient Smart Start and the military grade security with S2.



TLJ locks works with Samsung smart things when utilising a TLJ Zpads well as Amazon Alexa via the SmartThings & Amazon eco-system sync.



Kiwa is an accredited certification body and test laboratory. It is accredited by European accreditation bodies and is a Notified Body for various directives and regulations. TLJ locks are thoroughly fire tested by KIWA on a substantial amount of door types, densities and sizes.



PAS24 - Physical security attack test, including mechanical load testing BS6375-2 and cycle testing of 50,000 cycles EN1191.



Tested and successfully passed a 10C fire burn test and subsequent hose stream test, in line with state code in the US & Canada.



All TLJ locks are rigorously tested to comply with FCC standards and has been proven to do so.



Grade 2: The American National Standards Institute oversees Standards and Conformity Assessment Activities in The United States. PENDING.



EN 1634-1:2014 - Fire resistance & smoke control for a minimum of 30/60 minutes.





TLJ Access Control

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