

SAFETY





E SAFETY

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IMPORTANCE OF SAFE ISOLATION

Unintentional energisation of circuits, machinery and equipment is a leading cause of death and injury among electrical contractors.

To minimise this type of accident regulations such as the Provision and Use of Work Equipment 1998, Section 19 Energy” and the “Electricity at Work Regulations 1989, Regulation 13” require companies to have effective isolation policies in place.

Most accidents can be avoided by installing simple lockout/tagout devices prior to any electrical work being carried out.

BASIC PRACTICE FOR SAFE ISOLATION

When working on electrical equipment/energised circuits, it is important that certain basic steps are followed:

- The correct point of isolation is identified
- An appropriate means of isolation is used
- Suitable caution notices should be placed where visible at the point of isolation
- All conductors must be proved to be dead at the point where work is intended to be carried out
- The electrical supply can not be reinstated while work is

being carried out on any equipment/part of the circuit

- Isolation of equipment/circuits should be under the control of the person responsible for carrying out work on the isolated conductors
- Multi-lock hasps / devices should be used in the event of more than one person working on isolated equipment / circuits



COMPLIANCE WITH CURRENT REGULATIONS

IDEAL offers a range of lockout/tagout products to provide a cost-effective and safe solution in the management of electrical safety and circuit isolation in the workplace.

IDEAL lockout/tagout devices help to achieve compliance with current regulations.

For more comprehensive information on electrical safety and safe isolation, refer to the best practice guide available from the **Electrical Safety Council** entitled **‘Guidance on the management of electrical safety and safe isolation procedures for low voltage installations’**.

The latest version is available on the Electrical Safety Council website (www.esc.org.uk).



SAVING LIVES AND PREVENTING INJURY WITH SAFE ISOLATIONS

According to the latest statistics from Electrical Safety First, there are 379 injuries or fatalities per year in England from electrical distribution.

It's an alarming statistic, particularly when we consider that many of these incidents are entirely preventable by using simple equipment and maintaining good safety behaviours on site.

In the electrical sector, as in all aspects of the construction sector, health and safety is already a priority.

However, those who work with known hazards all the time can become complacent about the real dangers and overlook the need for basic safety measures to protect themselves and others.

In the electrical sector, one step that is often overlooked is safe isolation of the electrical network.

More alarming still, is a parallel statistic: only one in five electricians carries a safe isolation lockout/tagout kit to ensure that the isolated distribution network



is not accidentally switched to live while they are still working.

As a result, professionals who routinely work with mains voltage and know how potentially fatal it can be are failing to protect themselves and their colleagues from accidents that could cause serious injury or death.



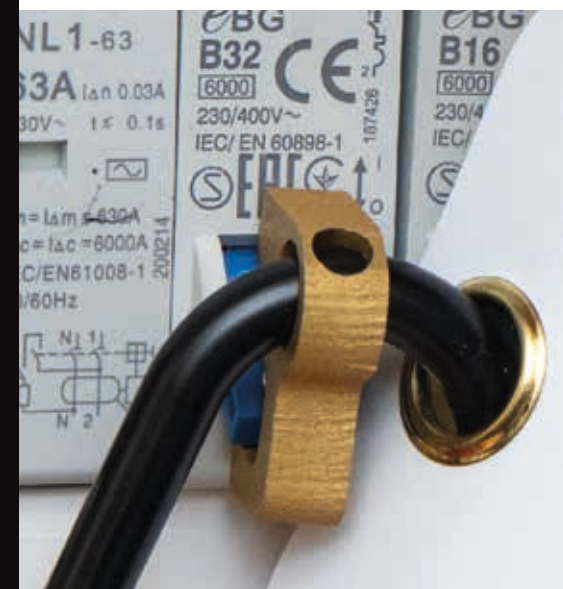
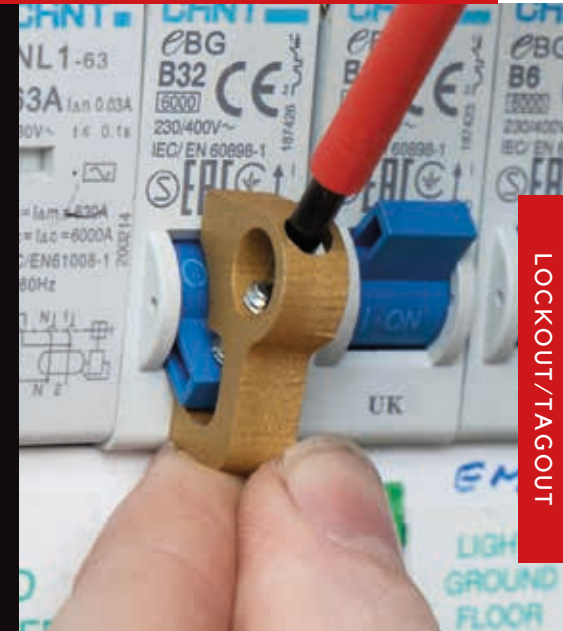
WHERE DOES THE RESPONSIBILITY LIE?

Fundamentally, the issue of electric shocks caused by unsafe isolations results from poor safety behaviours on site. Electricians know that they need to make an isolation safe by locking it out and marking it clearly, yet they are not only failing to do so, but do not even carry the required equipment in their kit.

Part of this is due to workplace cultures.

Young electricians entering the profession have been trained in safe isolations and anticipate using best practice on site but, in a busy commercial environment, under time pressure, experienced colleagues don't always prioritise locking out and tagging isolations to ensure they're safe.

As a result, poor safety behaviours are being perpetuated and electricians continue to put themselves, their colleagues, and others on site at risk.



SAVING LIVES AND PREVENTING INJURY WITH SAFE ISOLATIONS CONTINUED

There is another element to the problem, however.

While it's the employer's responsibility to ensure that each operative remains safe on site and enforce good safety behaviours, few contractors supply safe isolation kits in the same way they would expect to provide PPE.

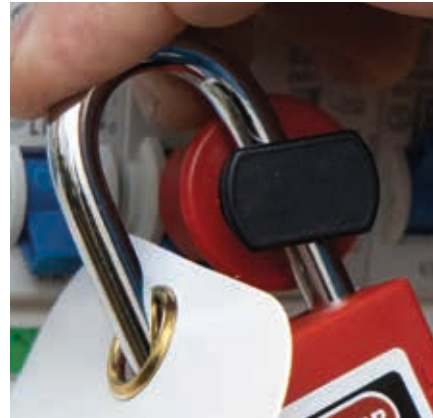
Nor do they make carrying a safe isolation kit a mandatory requirement across their team.

As a result, the practice of locking out and tagging isolations on site is often not monitored by those in senior site-based roles and the message about the importance of safe isolations is not, therefore, endorsed.

GETTING KITTED UP

The need for increased vigilance and improved safety behaviours when it comes to safe isolations has prompted to call for improved regulation and compliance on safe isolation of live electrical services

to drive safety best practice and save lives.



There is HSE guidance in place to encourage safe isolation best practice, but this needs to be reinforced by a mandatory requirement to prevent accidents by locking out every isolation.

Accidental contact with part of the network that has inadvertently been switched back to live is, after all, an easily avoidable hazard.



WIDE RANGE OF KITS AVAILABLE

We have a wide range of safe isolation products that enable electricians to lock out isolations, including padlocks, hasps and lockout devices, along with re-useable tags.

We recommend that all electricians carry a full safe isolation lockout / tagout kit on every job and have a range of safe isolation kits for both commercial and domestic installation environments.

For additional protection against accidental contact with mains voltage, we also suggest that electrical contractors use IDEAL's range of insulated tools.

Ultimately, IDEAL has a range of electrical testing equipment which should also be used as part of a safe isolation process to verify isolation of the required area and check that there is no potential danger from mains voltage.

LET'S TAKE ACTION

Hopefully, at some point, use of lockout and tagout kits will become mandatory.

Until then, let's save lives and prevent injury by using the equipment available to make isolations safer.



Contractor Lockout/Tagout Kit

- Aimed at contractors working on industrial, commercial and domestic installations
- Contains a range of devices allowing you to lock off most breakers on the market
- Supplied in a handy zipped pouch to help keep the kit close to hand and easily accessible



Domestic Installer Lockout/Tagout Kit

- Primarily aimed at the domestic installer
- Contains devices for use on typical breakers found in domestic installations
- Supplied in a handy zipped pouch



Contractor PRO Lockout/Tagout Kit

- Aimed at contractors working on industrial, commercial and domestic installations
- Contains a broad range of devices allowing installers to provide safe isolation by locking off virtually all breakers on the market today
- Includes full range of MCB lockout devices including pins-in, pins-out, pins-out wide, tie-bar and various universal MCB lockout devices
- Supplied in a handy zipped pouch to help keep the kit close to hand and easily accessible



Personal Lockout/Tagout Kit

- A low-cost lockout kit containing two popular lockout devices plus a safety padlock and Do Not Operate tag
- Suitable for individuals or companies wishing to kit out their entire workforce with a low-cost versatile lockout kit



Description	Part No.
Contractor Lockout/Tagout Kit	44-985UK
Contractor PRO Lockout/Tagout Kit	44-995

Description	Part No.
Domestic Installer Lockout/Tagout Kit	44-924
Personal Lockout/Tagout Kit	44-925

Apprentice Kit

Poor safety behaviour around isolation is a real problem in the electrical industry, with only one in five electricians carrying a safe isolation kit in their tool bag. IDEAL is helping to address this issue by working with training providers to achieve a cultural shift and embed safety best practice in the next generation of electricians as well as trainee heating engineers and plumbers.

The Apprentice Safe Isolation Kit has been designed to contain everything an apprentice needs

- The lockout kit includes a Vol-Con® Digital Voltage Tester:
 - tests for both AC and DV voltage
 - provides a visual and audible alert for continuity and non-contact voltage
 - features low impedance to eliminate ghost voltages
- Supplied in a handy zipped pouch



Description	Part No.
Apprentice Kit	44-986

Kit Selection Chart

Part no.	Description:	44-925	44-924	44-985UK	44-986	44-995
K-8334	Safety Padlock	✓	✓	✓	✓	
K-40611	Non-Conductive Safety Padlock					✓
KB-0224	Steel Lockout Hasp		✓	✓		
44-428EU	Non-Conductive Lockout Hasp					✓
KB-0375	Circuit Breaker Lockout			✓	✓	✓
IA-2280	"No-Hole" Lockout Device			✓		✓
441.001	MCB Pins-Out Device (Std)	✓	✓	✓		✓
441.002	MCB Pins-In Device					✓
441.003	MCB Pins-Out Device (Wide)					✓
441.004	Tie-Bar Lockout Device					✓
KB-0234	Universal MCB Lockout Device (Metal)	✓	✓	✓	✓	✓
44-2393	Universal MCB Lockout Device (Plastic)					✓
44-2394	Universal MCB Lockout Device (Plastic)					✓
44-5833EU*	Lockout Tags	✓(1)	✓(2)	✓(5)	✓(5)	✓(5)
K-7566	Marking Pen		✓	✓	✓	✓
IA-3240	Lockout Pouch		✓	✓	✓	✓
61-090EU	Vol-Con® Elite Digital Voltage Tester with GS38 compliant test leads				✓	

* Can only be ordered in packs of 5 (44-5833EU)



MCB Lockout Devices

- A safe and effective method for locking out European Circuit Breakers
- The lockout easily installs with the aid of a Push Button
- Use in combination with a padlock with a shackle diameter up to 6 mm for added safety
- Requires no tools to install

Description	Cat. No.
MCB Lockout Device - Pins Out	441.001*
MCB Lockout Device - Pins In	441.002
MCB Lockout Device - Pins Out Wide	441.003

* Available as blister packaging for retail display - add "-D" to the end of the part number



441.001



441.002



441.003

LOCKOUT/TAGOUT

Universal MCB Lockout Devices

- Universal MCB lockout devices useful for isolating MCB's without pin holes on the MCB switches
- Simple and easy to use

Description	Cat. No.
Universal MCB Lockout Device - metal	KB-0234*
Universal MCB Lockout Device - plastic, yellow (small)	44-2393*
Universal MCB Lockout Device - plastic, blue (large)	44-2394

* Available as blister packaging for retail display - add "-D" to the end of the part number



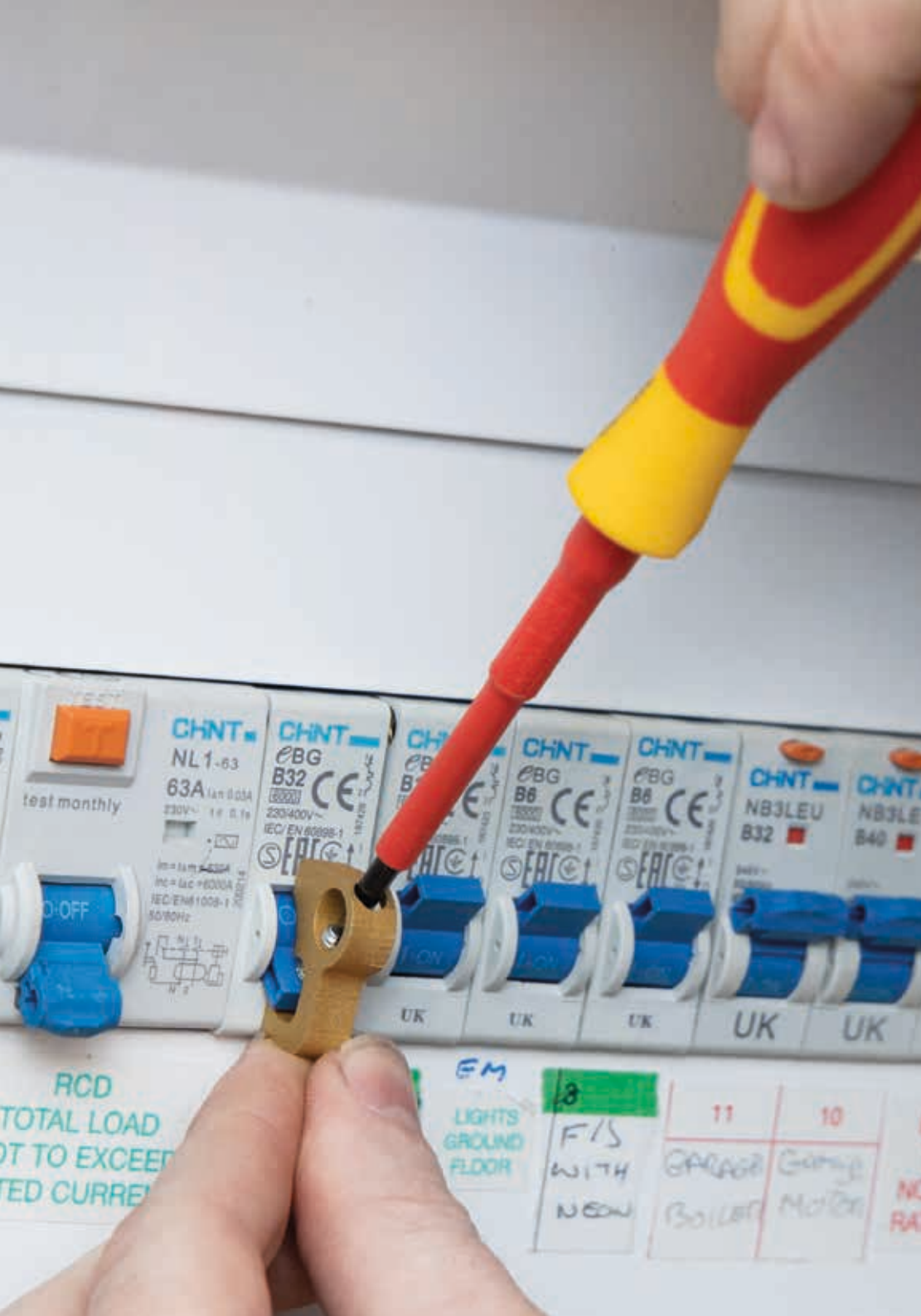
KB-0234



44-2393



44-2394



Safety Padlocks

- Dedicated safety lockout device reduces confusion with other locks
- Durable non-conductive, Xenoy lightweight body
- 6 mm triple-coated hardened-steel shackle
- Key retention ensures keys do not get lost while padlock not in use
- Available in various colours for easy identification

Description	Cat. No.
Safety Padlock 38 mm steel shackle - red	K-8334*
Safety Padlock 38 mm steel shackle - blue	K-8330
Safety Padlock 38 mm steel shackle - yellow	K-8336
Safety Padlock 76 mm long steel shackle - red	K-41021

* Available as blister packaging for retail display - add "-D" to the end of the part number

Non-Conductive Safety Padlocks

- Dedicated safety lockout device reduces confusion with other locks
- Non-conductive, Xenoy lightweight body
- 6 mm non-conductive nylon shackle
- Dielectric protection - anti-sparking
- Key retention ensures keys do not get lost while padlock not in use
- Available in red or yellow body

Description	Cat. No.
Non-Conductive Safety Padlock 38 mm nylon shackle - red	K-40611
Non-Conductive Safety Padlock 38 mm nylon shackle - yellow	K-40612



Universal Hasp (Double Ended)

- Combines small and large hasp
- Allows up to six workers to lock out a single energy source
- Attach hasp to energy disconnect switch
- Control cannot be turned on until last worker's padlock is removed from hasp
- Hasp length 137 mm

Description	Cat. No.
Universal Hasp (Double Ended)	KB-0231



Steel Lockout Hasps

- Steel jaw with vinyl coated handle
- Allows up to six workers to lock out a single energy source
- Attach hasp to energy disconnect switch
- Control cannot be turned on until last worker's padlock is removed from hasp
- 25 mm and 38 mm dia. shackles available

Description	Cat. No.
Steel Lockout Hasp - 38 mm shackle	KB-0224*
Steel Lockout Hasp - 25 mm shackle	IA-5502

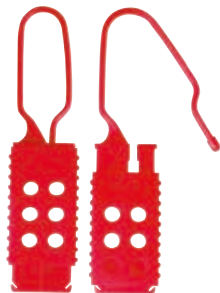
* Available as blister packaging for retail display - add "-D" to the end of the part number



Non-Conductive Logout Hasp

- Non-conductive, dielectric protection, anti-sparking
- Allows up to six workers to lock out a single energy source
- Attach hasp to energy disconnect switch
- Control cannot be turned on until last worker's padlock is removed from hasp
- Inside jaw 25 x 63 mm

Description	Cat. No.
Non-Conductive Lockout Hasp	44-428EU



Mini-MCB Lockout Device

- Universal device that fits virtually all miniature circuit breakers in the market
- Cover easily pivots open and closed so the dial is inaccessible in the locked position to prevent removal
- Can be applied horizontally or vertically to lock out more than one breaker simultaneously

Description	Cat. No.
Mini-MCB Lockout Device	KB-1234



"No-Hole" Lockout Devices

- Lockout device that is ideal for breakers without built-in locking facilities often found in older domestic and commercial installations
- Extremely versatile - works on wide range of single pole and internal-trip multi-pole breakers
- Thumbscrews to clamp lockout securely onto switch tongue, and cover for thumbscrew to lock in place to prevent clamp from being loosened

Description	Cat. No.
"No-Hole" Lockout Device (max. switch 15 mm)	IA-2280
"No-Hole" Lockout Device (max. switch 38 mm)	LA-2182



Circuit Breaker Lockouts

- Attaches securely to breaker with simple thumb turn and clamping handle
- KB-0226 is designed for breakers with wide or tall toggles
- KB-0227 fits standard height and tie-bar toggles
- The narrow profile permits side-by-side breaker lockout
- Durable powder coated steel and reinforced polymer for use in harsh environments

Description	Cat. No.
Circuit Breaker Lockout Kit including one for wide & tall toggles and one for standard single & double toggles	KB-0375*
Circuit Breaker Lockout Kit for wide & tall toggles	KB-0226
Circuit Breaker Lockout Kit for standard single & double toggles	KB-0227

* Available as blister packaging for retail display - add "-D" to the end of the part number



KB-0226



KB-0227

Tie-Bar Lockout Device

- A safe and effective method for locking out non-standard breakers where pins-in / pins-out devices can not be used
- Convenient thumb wheel for quick application
- Use in combination with a padlock with a shackle diameter up to 6 mm for added safety
- Requires no tools to install

Description	Cat. No.
Tie-Bar Lockout Device	441.004



Adjustable Cable Lockout

- Adjustable safety hasp and cable
- Ideal for locking out multiple breakers or side-by-side gate valves
- Device can be locked using four padlocks
- Can be adjusted once the cable is locked
- Durable, flexible multi-stranded 1.8 m long vinyl coated steel cable
- Tough, lightweight, dielectric Xenoy thermoplastic body withstands chemicals and performs effectively in extreme conditions



Description	Cat. No.
Adjustable Cable Lockout	44-808

Lock Stations

- Integrated, one-piece moulded construction
- Resilient polycarbonate material provides heat resistance and high impact strength
- Lockable cover prevents loss of contents
- Secure with a combination lock for simple access control



Description	Cat. No.
5-10 Locks Lockout Station (Station Only)	44-778-SO
10-20 Locks Lockout Station (Station Only)	44-806-SO

Electrical Plug Lockouts

- Surrounds electrical plugs and prevents accidental reconnection
- Designed to enable installation in confined spaces
- Large plug lockout accepts various electrical plugs up to 500V and accommodates wide range of cable diameters
- Small plug lockout is perfect for safe isolation of appliances with a standard mains plug
- Locked out using safety padlock

Description	Cat. No.
Electrical Plug Cover (Small) 120V - 240V	44-0487
Electrical Plug Cover (Large) 220V - 500V	44-0488



DO NOT OPERATE Lockout Tags

- Heavy duty vinyl tag with metal grommet for extra strength
- Designed to withstand use in harsh environments
- High visibility lettering

Description	Cat. No.
DO NOT OPERATE Lockout Tags - Pack of 5	44-5833EU



Marking Pen

- Fast-drying, permanent ink will not smear
- For use on lockout tags, write-on marker cards and write-on cable-tie marker plates

Description	Cat. No.
Marking Pen w/black ink	K-7566



BE SAFE !



Unintentional energisation of circuits is a leading cause of death for electricians!



SAFE ISOLATION BY IDEAL

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