



kelman

FUSEMATE
Low Voltage Fuse
Replacement System

FUSEMATE

A compact and reliable hand-held tool to make LV fuse replacement safe and avoid personal injury.

The Kelman Fusemate closes the faulted circuit and displays the current flowing.

The operator is a safe distance away using remote control.

Fusemate has a fuse in series with a miniature vacuum switch. Its control and monitoring electronics provide the indication and control functions.

HOW FUSEMATE WORKS

Use of Fusemate gives the operator crucial information to enable him to deal with the circuit safely.

When closed under 'Normal load' current conditions the Fusemate will complete the circuit and display the current level on the LED bar graph display.

When closed under 'Fault' current conditions, the fuse in the Fusemate blows to provide automatic protection for the operator (for abnormal currents where the fuse has not blown, the operator can open Fusemate).

The trigger mechanism in the Fusemate is designed to give a uniformly controlled opening operation which is independent of the operator action and can safely interrupt up to 2kA.



LV FUSE REPLACEMENT SYSTEM



The Fusemate is designed to carry a maximum load current for a short period of time in order to allow a circuit to be tested (typically less than 5 minutes) and should normally be removed from the circuit as soon as the current level has been established.

The Fusemate gives a clear indication of the blown fuse and Fusemate should always be used in conjunction with industry standard safety precautions when working on energized LV circuits.

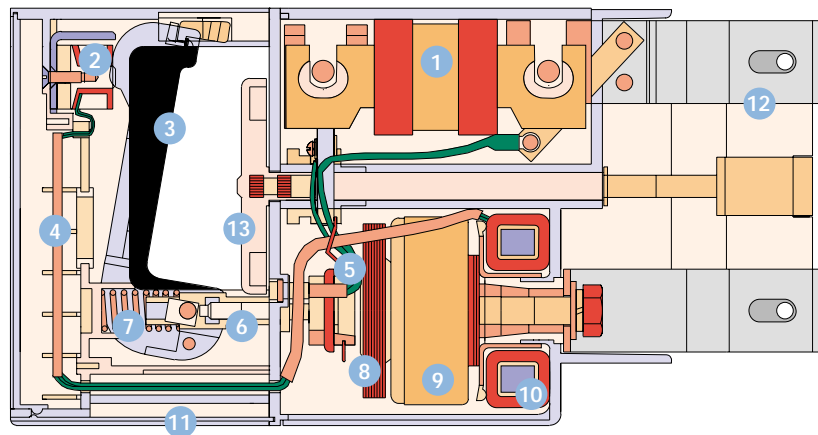
LIVE CABLE JOINTING

A special adapter kit is available to permit the Fusemate to be temporarily connected in parallel when making a cable joint. This allows the joiner working on live LV cables to establish that there is no fault on the cable prior to beginning work and to complete the joint safely.

A compact and reliable hand-held tool to make LV fuse replacement safe and avoid personal injury. The operator can be a safe distance away using a remote control.



- 1 FUSE
- 2 MAGNETIC LATCH
- 3 TRIPPING HANDLE
- 4 ELECTRONICS
- 5 MOVING CONNECTION
- 6 DRIVE ROD
- 7 CLOSING SPRING
- 8 BELLOWS
- 9 VACUUM INTERRUPTER
- 10 CURRENT TRANSFORMER
- 11 BATTERY COMPARTMENT
- 12 WIPING CONTACTS
- 13 RACHET TIGHTENING WHEEL



SAFETY

Inherently safe design.

REMOTE OPERATION

Via a low power radio keyfob up to 30m range.

PORTABILITY

Light weight (2kg) and small size ideal for single man operation.

EASE OF USE

Compact design and clear instrumentation enable quick and effective use.

COMPATIBILITY

Fits JS and JP type fuse positions, even in linkboxes and polemounted fuse holders. There is also an accessory to facilitate use on NH fuse systems (DIN 43620/IEC 269).

RELIABILITY

Rugged design allows operation under the most severe working conditions.

ACCESSORIES

The Fusemate is supplied complete with the following accessories:

- Remote control radio keyfob transmitter.
- Insulated tool for fuse replacement.
- Continuity Tester.
- Safety Catch (on request).
- NH fuse accessory (on request).

All equipment is contained in a rugged nylon carrying bag with separate compartments for the storage of spare fuses.

FUSEMATE CAN BE USED DIRECTLY IN:

- LV feeder frames.
- Pole-mounted fuse holders.
- Underground Distribution Boxes.

FUSEMATE CAN BE ALSO BE USED WITH ADAPTOR KITS IN MANY OTHER SITUATIONS:

- With NH fuses.
- In live Cable Jointing procedures.
- Non-standard LV underground distribution boxes, kiosks and feeder frames.



TECHNICAL SPECIFICATION

| SPECIFICATION | VALUES |
|-----------------------------|------------------------------|
| RATED OPERATING VOLTAGE | 415V RMS |
| MAXIMUM RATED LOAD CURRENT | 400A RMS FOR 5 MINUTES |
| MAXIMUM MAKING CURRENT | 50kA RMS |
| SERIES FUSE RATING | JP TYPE, 400A MAXIMUM |
| MANUAL CURRENT INTERRUPTION | 2,000A RMS MAXIMUM |
| MECHANICAL LIFE (NO LOAD) | 10,000 OPEN/CLOSE OPERATIONS |
| INSULATION LEVEL | 2.5kV RMS |
| ENCLOSURE MATERIAL | POLYCARBONATE |
| POWER SUPPLY | 9Vdc BATTERY (INTERNAL) |
| WEIGHT | 2kg |
| DIMENSIONS | 300 X 150 X 85mm |
| OPERATING TEMPERATURE RANGE | -10° TO +50°C |



Head Office

Kelman Ltd.
Lissue Industrial Estate East
Lissue Road
Lisburn BT28 2RB
United Kingdom

Tel: +44 (0) 28 9262 2915
Fax: +44 (0) 28 9262 2202
E-mail: fusemate@kelman.co.uk
Web: www.kelman.co.uk

Company Reg. No. NI 27892



USA

Kelman North America Inc.
4147 N. Ravenswood Ave.
Chicago IL 60613

Tel: +1 (773) 944 0693
Fax: +1 (773) 944 0690
E-mail: fusemate@kelman-usa.com
Web: www.kelman-usa.com



United Kingdom

Kelman Ltd.
Bermuda Innovation Centre
St David's Way
Bermuda Park Nuneaton
Warwickshire CV10 7SD

Tel: +44 (0) 24 7632 0100
Fax: +44 (0) 24 7664 1172
E-mail: fusemate@kelman.co.uk
Web: www.kelman.co.uk



Europe

Kelman Ltd.
Friedrichstraße 15
70174 Stuttgart
Germany

Tel: +49 (0) 711 54095 120
Fax: +49 (0) 711 54095 200
E-mail: fusemate@kelman-eu.com
Web: www.kelman-eu.com



South Africa

Kelman Distributors Africa Ltd.
7 Cachet Road
Lambton Germiston
Johannesburg
Gauteng 1401

Tel: +27 (0) 11 827 3279
Mobile: +27 (0) 82 654 0938
Fax: +27 (0) 11 827 3279
E-mail: fusemate@kelman-africa.com
Web: www.kelman-africa.com



China

Kelman China
New Caohejing Tower
No. 509 Caobao Road
Caohejing Hi-Tech Industry Park
Shanghai 200233

Tel: +86 (0) 21 5426 2839
Fax: +86 (0) 21 5426 2849
E-mail: fusemate@kelman-china.com
Web: www.kelman-china.com



India

Kelman Ltd.
82 / 83 Borewell Road
Whitefields
Bangalore, 560066

Tel: +91 (0) 80 5190 3076
Fax: +91 (0) 80 2845 6467
E-mail: fusemate@kelman-india.com
Web: www.kelman-india.com



Russia

Kelman Ltd.
30, Pionerskaya Street
Saint-Petersburg, 197110

Tel: +7 (812) 235 3918
Fax: +7 (812) 235 3918
E-mail: fusemate@kelman-russia.com
Web: www.kelman-russia.com