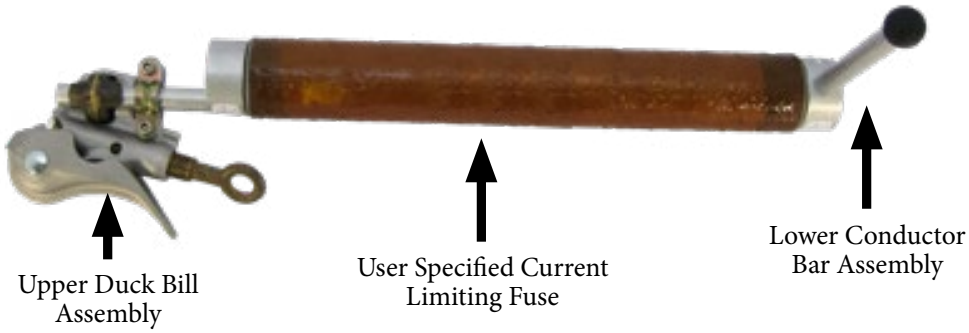
Fuse-Safe™
Portable Current Limiting Fuse



Operation & Maintenance Manual

C-00806 USFS Manual (7-28-20)

USFS-001	**FUSE-SAFE™ PORTABLE CURRENT LIMITING FUSE 5/8" CONDUCTOR BAR (NO FUSE)**
USFS-002	**FUSE-SAFE™ PORTABLE CURRENT LIMITING FUSE 5/8" CONDUCTOR BAR WITH FUSE INCLUDED**
USFS-003	**FUSE-SAFE™ PORTABLE CURRENT LIMITING FUSE 3/8" CONDUCTOR BAR (NO FUSE)**
USFS-004	**FUSE-SAFE™ PORTABLE CURRENT LIMITING FUSE 3/8" CONDUCTOR BAR WITH FUSE INCLUDED**

Product Description

The Fuse-Safe™ is a portable current-limiting fuse tool. It allows a current limiting fuse to be temporarily placed in series to protect equipment on overhead distribution systems. The Fuse-Safe™ ensures a safe, controlled mode of interruption in the event of a fault.

A current limiting fuse will limit the energy released during a fault. The fuse provides both overload and fault protection for distribution equipment. The absence of expelled hot gases/molten debris and the limited exposure to the full magnitude of available fault current offers added safety to personnel and equipment.

Application

Ensure the fuse is sized for the applicable system voltage.

Not all current-limiting fuses are designed for extended outdoor use. Contact factory for more options.

⚠ WARNING ⚠

Carefully read and fully understand this manual prior to operating, maintaining or testing this device. Improper operation, handling or maintenance of this device can result in death, grievous personal injury and or equipment damage.

⚠ WARNING ⚠

These instructions are not intended to replace or be a substitute for proper safety training procedures. Failure to select the proper tool in regards to minimum system requirements can result in death, grievous personal injury and or equipment damage.

⚠ WARNING ⚠

Only trained and qualified personnel should operate, inspect and maintain this device.

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Safety Procedures

Follow all approved and necessary procedures to secure the electrical site before beginning work. Follow all existing codes, requirements and instructions for all equipment used in conjunction with the Fuse-Safe™.

Fuse Selection

The Fuse-Safe™ is designed for Thomas & Betts® (Hi-Tech®) Trans-Guard® FX Full-Range Current Limiting Fuses. Verify that the intended fuse is correctly sized in relation to the system voltage, amperage and transformer kVA rating.

Tool Assembly

1. Use a continuity tester to verify the current limiting fuse has not been expended prior to assembly. *If the fuse includes an optional Blown Fuse Indicator a continuity test may not be required.*
2. Use the provided 1/8" Allen Wrench to tighten the set screws that fasten the Upper Duckbill Assembly and the Lower Conductor Bar Assembly to a correctly sized Full Range Current Limiting Fuse. *If the fuse is equipped with an optional Blown Fuse Indicator, attach the indicator end onto the Lower Conductor Bar Assembly so it will be visible from below when installed.*

Installation & Operation

The Fuse-Safe™ should be installed in series with a fuse cutout, solid blade switch, or Power Fuse.

1. Reference the optional Blown Fuse Indicator or use a continuity tester to verify the current limiting fuse has not been expended prior to installation.
2. Install the Fuse-Safe™ on an overhead source line conductor using a shotgun type fiberglass stick.
3. Connect one end of an approved bypass jumper to the load side of the circuit (fuse cutout, solid blade switch, or Power Fuse). Connect the other end of the bypass jumper to the Fuse-Safe™ conductor bar.
4. Energize the circuit. If a fault occurs, remove the bypass jumper from the Fuse-Safe™ conductor bar using approved, safe work practices. Verify the current limiting fuse has been expended. Clear the fault. Replace the expended fuse and repeat steps #1-4.
5. If a fault is not present, the circuit can be bypassed with permanent jumpers or de-energized and the Fuse-Safe™ can be removed.

⚠ DANGER ⚠

Contact with high voltage will cause death or grievous personal injury to the operator. Only use this device in conjunction with safe operating practices around energized lines and equipment.

⚠ WARNING ⚠

Follow safe work procedures and practices when utilizing this device. Failure to use this device in a safe manner can result in death, grievous personal injury and or equipment damage.

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