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Model: W-A-5426-5ea | Brand: Witonics

1. INTRODUCTION

This manual provides essential information for the safe and effective use of Witonics 5x20mm 250mA Fast Blow Ceramic Fuses. These fuses are designed to protect electrical circuits from overcurrent conditions, preventing damage to components and ensuring safety. Please read this manual thoroughly before installation or replacement.

2. SAFETY INFORMATION

WARNING: Electrical work can be dangerous. Always follow proper safety procedures to prevent electric shock, fire, or personal injury.

- Always disconnect power to the circuit before inspecting, installing, or replacing fuses.
- Never replace a fuse with one of a different rating (voltage or current) than specified by the equipment manufacturer. Using an incorrect fuse can lead to fire or damage to the equipment.
- Ensure your hands are dry and you are not standing in water when working with electrical components.
- If you are unsure about any electrical procedure, consult a qualified electrician.
- Do not bypass or attempt to repair a blown fuse. Always replace it with a new, correctly rated fuse.

3. PRODUCT OVERVIEW

The Witonics 5x20mm 250mA Fast Blow Ceramic Fuses are designed for quick interruption of current flow in the event of an overload or short circuit. Their ceramic body provides excellent thermal and mechanical stability, making them suitable for various applications.

- **Type:** Fast Blow (F)
- **Dimensions:** 5mm diameter x 20mm length (approximately 3/16 inch x 3/4 inch)
- **Current Rating:** 250mA (0.25 Amp)
- **Voltage Rating:** 125V / 250V
- **Material:** Ceramic

- **Quantity:** Pack of 5



Figure 1: A pack of five Witonics 5x20mm 250mA Fast Blow Ceramic Fuses. The fuses are cylindrical with metal end caps, typically used in electronic devices to protect against overcurrent.

4. INSTALLATION AND SETUP

Follow these steps to safely install or replace a fuse:

1. **Disconnect Power:** Ensure the equipment or circuit requiring the fuse is completely disconnected from its power source. Turn off the main power switch or unplug the device.
2. **Locate Fuse Holder:** Identify the fuse holder in your equipment. This may be a twist-off cap, a pull-out drawer, or a clip-in slot.
3. **Remove Old Fuse:** Carefully remove the blown or old fuse. Note its physical appearance and ratings.
4. **Verify New Fuse:** Confirm that the new Witonics fuse matches the required specifications (5x20mm, 250mA, 125V/250V Fast Blow) for your equipment. *Never use a fuse with a higher current rating.*
5. **Insert New Fuse:** Insert the new fuse firmly into the fuse holder. Ensure it is seated correctly.
6. **Restore Power:** Close the fuse holder, if applicable, and then restore power to the equipment.

If the new fuse blows immediately, there may be a more serious electrical issue. Disconnect power and consult a qualified technician.

5. OPERATING PRINCIPLE

Fuses are passive safety devices. When the current flowing through a circuit exceeds the fuse's rated current (250mA in this case) for a specified duration, the metallic element inside the fuse melts, creating an open circuit. This action effectively stops the flow of electricity, protecting sensitive components from damage due to overcurrent or short circuits. Fast blow fuses react quickly to overcurrent conditions.

6. MAINTENANCE

Witonics ceramic fuses are maintenance-free components. They are designed for single-use protection. Once a fuse blows, it must be replaced. Regular maintenance involves:

- **Periodic Inspection:** If equipment malfunctions, check the fuse first. A blown fuse often has a visible break in the internal wire or a darkened glass/ceramic body (though ceramic fuses are opaque, so visual inspection of the element is not possible without specialized tools).
- **Replacement:** Always replace a blown fuse with an identical type and rating.

7. TROUBLESHOOTING

If your equipment is not functioning, and you suspect a fuse issue:

- **No Power:** If the device has no power, check the fuse. A multimeter can be used to test for continuity across the fuse. A blown fuse will show infinite resistance (open circuit).
- **Repeated Blowing:** If a new fuse blows immediately or shortly after replacement, it indicates an underlying problem in the circuit, such as a short circuit or an overloaded component. Do not continue to replace fuses without addressing the root cause.
- **Incorrect Fuse:** Ensure you have installed the correct type and rating of fuse. An undersized fuse will blow prematurely, while an oversized fuse will not provide adequate protection.

For persistent issues, consult the equipment's service manual or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Brand	Witonics
Model Number	W-A-5426-5ea
Part Number	TTL-A-5426-5ea
UPC / GTIN	631908867596
Fuse Type	Fast Blow (F)
Current Rating	250mA (0.25 Amps)
Voltage Rating	125V / 250V
Dimensions	5mm x 20mm (3/16 inch x 3/4 inch)
Material	Ceramic
Mounting Type	Surface Mount
Unit Count	5 Count

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Witonics website. Specific warranty terms may vary.

For product support or inquiries, please visit the [Witonics Store on Amazon](#) or contact Witonics directly through their official channels.

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