SOFTWARE & TECH

Besam Unislide Operation Manual

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Mastering the Besam Unislide Operation Manual: A Comprehensive Guide for Smooth and Safe Automatic Door Operation

In the world of automatic door systems, few names command as much respect as Besam, and the Unislide series stands as a benchmark for reliability and performance. For facility managers, maintenance technicians, and security personnel, the **Besam Unislide Operation Manual**is not merely a booklet that ships with the door; it is the definitive roadmap to ensuring safety, longevity, and optimal efficiency. Understanding this manual is the difference between a seamlessly operating entrance and a frustrating, potentially hazardous, malfunctioning door.

This article serves as an in-depth companion to the official **Besam Unislide Operation Manual**. We will explore the critical sections of the manual, decode the technical jargon, and provide practical insights into operation, programming, troubleshooting, and maintenance. Our goal is to help you move beyond basic operation and gain a true mastery of your Unislide automatic sliding door system.

Understanding the Besam Unislide System: Beyond the Basics

The Besam Unislide is a high-performance, low-energy automatic sliding door operator designed for a wide range of commercial and public buildings. Its popularity stems from its robust construction, whisper-quiet operation, and smart sensor integration. However, before you can confidently use the **Besam Unislide Operation Manual**, it is essential to understand what you are working with. The system comprises several key components that work in concert: the drive mechanism (motor and belt), the control board (the brain), the power supply, and the sensor system (activation and safety sensors).

Core Components Referenced in the Manual

- The Drive Unit: This is the mechanical heart of the system, housing the motor, gearbox, and drive belt. The manual details how this unit moves the door panels smoothly along the track.
- The Control Board (Parent Board and Daughter Board): The manual dedicates significant space to these electronic components. The parent board manages main logic, while the daughter board handles sensor inputs and output commands. Understanding their layout is critical for programming.
- The Transformer and Power Supply: The Unislide typically operates on low-voltage DC power. The manual outlines proper wiring and voltage specifications to prevent damage.
- Sensors: The manual describes the different types of sensors—from basic radar motion detectors to active infrared presence sensors—and explains how to adjust their range and sensitivity.

Safety First: The Most Important Section of the Manual

Every **Besam Unislide Operation Manual**begins with a stern emphasis on safety, and for good reason. Automatic doors are heavy, powerful machines that can cause serious injury if not correctly installed or

maintained. This is the section you must read and re-read before you even power on the system.

Key Safety Warnings You Will Encounter

- Disconnect Power Before Servicing: This cannot be overstated. The manual will explicitly warn you to disconnect the main power source before opening the cover or touching any internal components.
- Proper Grounding: Failure to earth the system correctly can lead to electrical shock or damage to the control board.
- Pinch Points and Crush Hazards: The manual uses diagrams to identify areas where fingers, clothing, or objects can become trapped between the moving door panels and the fixed frame.
- Breakaway Function: The Unislide is designed to break away in an emergency. The manual outlines how to test this function and what to do if it fails to release.

Ignoring the safety protocols in the **Besam Unislide Operation Manual** is not just a violation of best practice—it may void warranties and create serious liability issues. Always treat the manual's warnings as non-negotiable commandments.

Operation Modes: How to Control Your Unislide Door

Once you have reviewed the safety guidelines, the manual will guide you through the various operational modes. Understanding these modes allows you to adapt the door to different times of the day, such as high-traffic hours or low-activity periods at night.

Automatic Mode

This is the default setting. The door opens upon detection of an approaching person (via motion sensor) and closes automatically after a preset delay. The manual explains how to adjust the opening speed, closing speed, and hold-open time to suit the specific location.

Constant Open Mode

In this mode, the door slides open and remains open indefinitely. This is useful for moving large furniture or equipment, or during a delivery window. The manual will show you how to engage and disengage this mode using the key switch or a remote command.

Night Lock / Security Mode

The door is mechanically locked and will not respond to any sensors. This is the standard mode for after-hours security. The manual will detail how to integrate the Unislide with an access control system or a simple key switch.

Partial Open Mode

Some versions of the Unislide allow for a partial open width, reducing energy loss by only opening one panel or opening to a reduced width. The **Besam Unislide Operation Manual** provides specific DIP switch settings or programming codes to configure this mode.

Programming and Adjustments: The Heart of the Manual

For many technicians, the most critical part of the **Besam Unislide Operation Manual** is the programming section. The Unislide uses a combination of physical DIP switches and a multi-function display or remote control to adjust parameters. Here is what you need to know.

Using the DIP Switches

The control board features a bank of small switches. The manual provides a matrix that shows you exactly which combination of switches activates which function. Common adjustments controlled by DIP switches

include:

- Master or Slave configuration (for tandem door systems).
- Timer settings for the hold-open delay (from 1 to 30 seconds).
- Selection between low-energy or full-energy operation.
- Enabling or disabling the breakaway function.

Fine-Tuning Speed and Force

Modern automatic doors must comply with strict safety standards (such as ANSI/BHMA A156.19 in North America). The manual will guide you on how to adjust:

- Opening Speed: How quickly the door accelerates to full velocity.
- Closing Speed: How smoothly the door decelerates as it approaches the closed position.
- Back Check Force: A safety feature that prevents the door from slamming into an obstacle. The manual explains how to set this force to just above the minimum required for reliable operation.
- Obstacle Detection Sensitivity: The door must reverse or stop if it encounters an obstruction. Setting this sensitivity too high can cause false stops; setting it too low can be dangerous. The manual provides step-by-step guidance.

Troubleshooting: Solving Common Unislide Issues

Even the best equipment can encounter problems. The troubleshooting section of the **Besam Unislide Operation Manual**is your first line of defense against downtime. Rather than calling an expensive service technician for every minor issue, you can often resolve problems yourself.

Door Not Opening

Possible Causes from the Manual: Power failure, tripped circuit breaker, faulty sensor, or control board error. The manual will direct you to check the power supply LED, inspect the sensor alignment, and listen for the relay clicking on the board.

Door Not Closing

Manual Guidance: This is often a safety sensor issue. An active infrared sensor may be detecting a phantom object (like a reflection from a wet floor or a plant leaf). The manual explains how to adjust the sensor's field of view or clean the lens. It also covers checking the hold-open timer setting.

Door Opens or Closes Erratically

Diagnosis Steps: The manual suggests inspecting the drive belt for tension and wear, checking for debris on the track, and verifying that the door panels are properly aligned. It also covers electrical interference that can disrupt the control board logic.

Maintenance Schedule: Extending the Life of Your Operator

The **Besam Unislide Operation Manual**is not just for fixing problems; it is for preventing them. A well-documented maintenance schedule is included to ensure the system operates reliably for years.

Daily Checks (Visual Inspection)

The manual recommends a quick visual check of the track for debris, verification that both safety sensors are clean, and a listening check for unusual grinding or squeaking sounds.

Monthly Checks

1. Test the breakaway function to ensure the door can be pushed open easily in an emergency.
2. Inspect the drive belt for tension and damage. A loose belt can cause slipping and erratic movement.

3. Clean the top track and wheels using a dry cloth or a soft brush. Avoid using lubricants unless the manual specifically recommends them.

Quarterly or Annual Checks

The manual will suggest a comprehensive inspection by a qualified technician. This includes checking all electrical connections for tightness, testing the backup battery (if equipped), verifying force and speed settings with a force gauge, and performing a full cycle test. Keeping a log of these inspections is a common recommendation in the manual.

Integrating the Unislide with Other Systems

Modern facilities often require the automatic door to talk to other building systems. The **Besam Unislide Operation Manual** provides guidance on integration options.

Access Control Systems

The manual includes wiring diagrams for connecting the Unislide to a card reader, keypad, or intercom. You will learn how to use the "request-to-exit" input and how to configure the door to unlock automatically when a fire alarm is triggered.

Fire Alarm Interface

Automatic doors must fail-safe during a fire. The manual explicitly covers how to connect the door operator to a fire alarm panel. When the alarm is triggered, the door must either fully open (for egress) or fully close (for smoke containment), depending on local regulations. The manual shows you the correct input terminal and the required relay logic.

A Note on Software and Firmware Updates

As with any electronic device, the firmware on the Besam Unislide control board may need updating. The manual, especially more recent editions, may reference a handheld programmer or a software tool for updating the board. Always ensure that you are using the most recent version of the **Besam Unislide Operation Manual** if you are performing firmware upgrades, as parameter addresses and functions can change.

Conclusion: Your Manual is Your Most Valuable Tool

The **Besam Unislide Operation Manual**is far more than a stack of paper—it is a comprehensive training resource, a diagnostic tool, and a safety document rolled into one. By investing time in reading and understanding its contents, you empower yourself to maintain a high standard of safety, reliability, and performance. Whether you are adjusting a simple timer or diagnosing a complex sensor fault, the manual provides the structured, authoritative guidance you need. Keep it accessible, refer to it regularly, and treat its instructions as the foundation of your automatic door maintenance program. In doing so, you will ensure that your Besam Unislide continues to serve your facility with the smooth, silent efficiency it was designed for.

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