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RS PRO 1

RS PRO 22mm Blue Flush Push Button with Spring Reset Instruction Manual

Model: 1

1. PRODUCT OVERVIEW

The RS PRO 22mm Blue Flush Push Button with Spring Reset is a robust industrial control component designed for front panel mounting. It features a blue, round, flush-type actuator with "RESET" marking, made from durable plastic with a modern silver edging. This push button is engineered for reliability and ease of installation in various industrial applications.



Figure 1: Front view of the RS PRO 22mm Blue Flush Push Button with Spring Reset. The button is blue with "RESET" text and has a silver-colored bezel.

Key Features:

- **Cut-out Diameter:** 22.5 mm
- **Actuator Color:** Blue
- **Actuator Shape:** Round, Flush Type
- **Actuation:** Spring Reset
- **Marking:** "RESET"
- **Material:** Plastic actuator with silver edging
- **IP Protection Class:** IP65 (Dust tight and protected against low-pressure water jets)
- **Mechanical Life:** Over 1 million applications
- **Contact Blocks:** Stackable design (max. 9)

2. SETUP AND INSTALLATION

This section provides instructions for the proper installation of the RS PRO push button.

2.1 Safety Precautions

- Ensure all power is disconnected before beginning installation to prevent electrical shock.
- Installation should be performed by qualified personnel familiar with electrical wiring and safety standards.
- Wear appropriate personal protective equipment (PPE).

2.2 Mounting Instructions

1. **Prepare Panel Cut-out:** Create a circular cut-out in the control panel with a diameter of 22.5 mm. Ensure the panel thickness is suitable for the push button's mounting mechanism.
2. **Insert Actuator:** Insert the push button actuator (the blue "RESET" part) through the front of the panel cut-out.
3. **Secure with Mounting Clip:** From the rear of the panel, attach the provided contact block mounting clip to the actuator body. Tighten securely to hold the push button firmly in place.
4. **Install Contact Blocks:** Attach the desired contact blocks (not included, but compatible with stackable design) to the mounting clip. Ensure they are correctly aligned and securely fastened. Up to 9 contact blocks can be stacked.
5. **Wire Connections:** Connect the electrical wiring to the contact blocks according to your system's schematic. Double-check all connections for proper polarity and secure fastening.

3. OPERATING INSTRUCTIONS

The RS PRO 22mm Blue Flush Push Button operates with a spring reset mechanism.

- **Actuation:** To activate the function associated with the push button, press the blue "RESET" button firmly.
- **Reset:** Upon release, the button will automatically return to its original, unpressed position due to the internal spring reset mechanism. This ensures momentary contact operation.
- **Functionality:** The specific action triggered by pressing the button (e.g., resetting a system, initiating a process) is determined by the external circuitry connected to the contact blocks.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable operation of your RS PRO push button.

- **Cleaning:** Periodically clean the surface of the push button and its bezel with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the plastic or markings.
- **Inspection:** Routinely inspect the push button for any signs of physical damage, loose connections, or excessive wear.
- **Environmental Protection:** The IP65 rating provides protection against dust and low-pressure water jets. While robust, avoid exposing the button to harsh chemicals or extreme environmental conditions beyond its specified rating.
- **Contact Block Check:** If issues arise, verify that the contact blocks are securely attached and their terminals are free from corrosion or loose wiring.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with the push button.

Problem	Possible Cause	Solution
Button does not activate circuit.	<ul style="list-style-type: none"> Loose or incorrect wiring to contact blocks. Faulty contact block. External circuit issue. 	<ul style="list-style-type: none"> Check all wiring connections for security and correctness. Test the contact block for continuity. Replace if faulty. Verify the external circuit's power supply and components.
Button sticks or does not return to original position.	<ul style="list-style-type: none"> Debris or foreign material under the button. Damage to the spring reset mechanism. Improper mounting. 	<ul style="list-style-type: none"> Clean around the button and bezel. Inspect for physical damage. If damaged, replacement may be necessary. Ensure the mounting clip is not overtightened or misaligned.
"RESET" marking is faded or illegible.	<ul style="list-style-type: none"> Wear from frequent use or harsh cleaning agents. 	<ul style="list-style-type: none"> This is typically cosmetic and does not affect functionality. Consider replacement if legibility is critical for safety or operation.

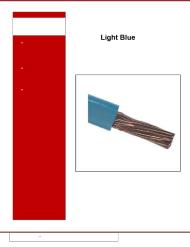
6. SPECIFICATIONS

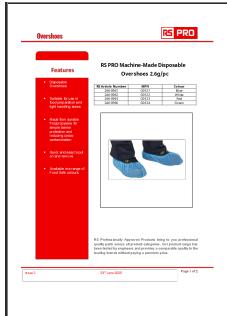
Detailed technical specifications for the RS PRO 22mm Blue Flush Push Button.

Attribute	Value
Brand	RS PRO
Model Number	1
Cut-out Diameter	22.5 mm
Push Button Colour	Blue
Push Button Shape	Round, Flush
Actuation Type	Spring Reset
Push Button Material	Plastic with silver edging
IP Protection Class	IP65
Push Button Marking	RESET
Push Button Diameter (overall)	30.2 mm

Attribute	Value
Mechanical Life	> 1 million applications
Max. Stackable Contact Blocks	9

Related Documents - 1

	<p>RS PRO Push Button Switches - Technical Specifications and Features Detailed specifications, features, and dimensions for RS PRO Push Button Switches (RS Stock No. 2489255). Includes electrical, mechanical, and environmental data.</p>
	<p>RS PRO BR2032 Button Battery Test Summary and Transport Classification Summary of UN 38.3 test results for RS PRO BR2032 Button Batteries, including classification for transportation and manufacturer details.</p>
	<p>RS PRO BR1225 Button Battery 3V Test Summary and Transport Classification Test summary and transport classification for the RS PRO BR1225 Button Battery 3V (Item Number 2841817), detailing UN 38.3 test results and compliance for transportation.</p>
	<p>RS PRO CR2477 Button Battery Test Summary for Transport Summary of test results for RS PRO CR2477 Button Battery (3V, 24mm Diameter) according to UN Manual of Tests and Criteria, Sub-section 38.3, for transportation classification. Includes test details and compliance status.</p>
	<p>RS PRO Light Blue 6mm² Tri-rated Cable - 100m Technical Specifications Detailed technical specifications for the RS PRO Light Blue STRANDED BR Tri-rated Cable, 6mm² CSA, 1kV, 100m. Features include voltage rating, temperature limits, conductor material, and approvals. Includes mechanical and electrical specifications.</p>



RS PRO Machine-Made Disposable Overshoes - Product Overview

Detailed information on RS PRO Machine-Made Disposable Overshoes, including features, specifications, materials, and applications for food preparation and light handling. Available in multiple colours.