

Allen-Bradley 800F-X10

Allen-Bradley 800F-X10 Contact Block Instruction Manual

Model: 800F-X10

Series: SER A

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Allen-Bradley 800F-X10 Contact Block. This device is designed for industrial electrical applications, providing a normally open (NO) contact function within control circuits.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Only qualified personnel should install, operate, or service this equipment.

- Disconnect all power before working on the equipment.
- Ensure proper grounding of all associated components.
- Adhere to all local and national electrical codes and safety regulations.
- Do not exceed the specified voltage and current ratings of the contact block.
- Use appropriate personal protective equipment (PPE).

3. PRODUCT OVERVIEW

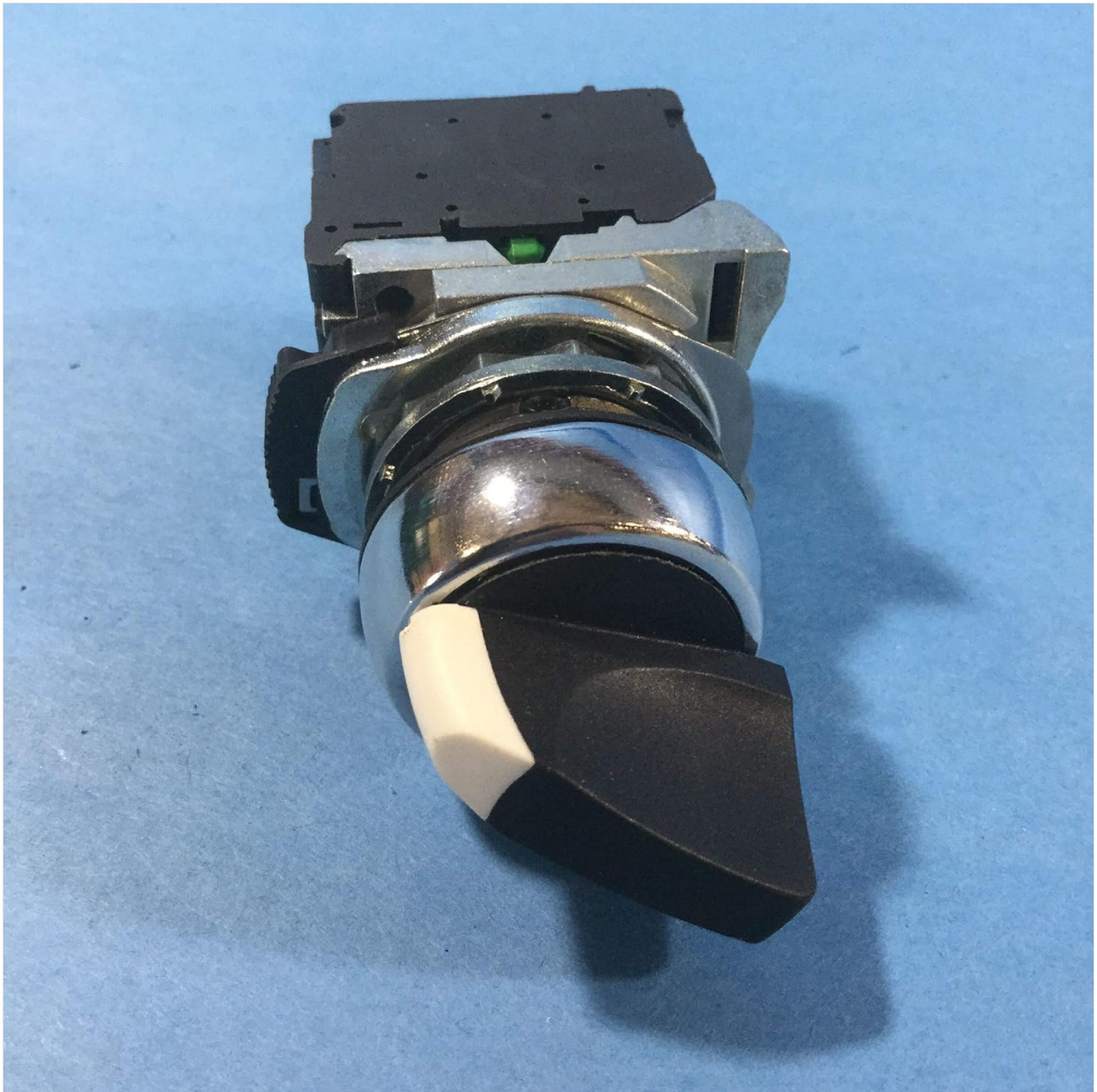
The Allen-Bradley 800F-X10 is a single normally open (NO) contact block designed for use with compatible Allen-Bradley 800F series pushbuttons or selector switches. It provides a reliable electrical contact for control circuits, ensuring proper signaling based on the operator's state.



This image displays the Allen-Bradley 800F-X10 Contact Block integrated with a selector switch. The contact block itself is black, with white and silver metal components, and features clear labeling including '800F-X10 SER. A', voltage ratings, and compliance marks. The selector switch has a black handle and a chrome base.



A side profile view of the Allen-Bradley 800F-X10 Contact Block and selector switch assembly. This angle highlights the compact design and the mounting mechanism, with the black contact block visible beneath the metallic switch base and black selector handle.



An angled perspective of the Allen-Bradley 800F-X10 Contact Block and its associated selector switch. This view provides a clearer look at the black selector handle with a white indicator mark, the chrome bezel, and the robust construction of the contact block assembly.



This image shows a detailed close-up of the Allen-Bradley 800F-X10 Contact Block itself, separated from the switch mechanism. The black plastic housing clearly displays the model number, series, voltage (Ui: 690V, Uimp: 4KV), current (Ithe: 10A), and various certifications like CE, UL, and CSA. A small green button or indicator is visible on the side.

4. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	800F-X10
Brand	Allen-Bradley
Contact Type	1 Normally Open (NO)
Input Voltage	600V AC
Output Current Rating	10A
Series	SER A
Mounting Type	Panel Mount

Feature	Specification
Connector Type	Screw
Product Dimensions (Contact Block)	0.89"W x 0.89"H
Operating Temperature	Refer to Allen-Bradley documentation

5. INSTALLATION

5.1. Tools Required

- Screwdriver (appropriate size for terminal screws)
- Wire strippers
- Multimeter (for verification)

5.2. Installation Steps

1. **Power Disconnection:** Ensure all power to the control panel or equipment is disconnected and locked out according to established safety procedures. Verify zero energy state.
2. **Mounting:** The 800F-X10 contact block is designed for panel mounting. Attach it to the rear of the compatible Allen-Bradley 800F series pushbutton or selector switch operator. Ensure it clicks securely into place, indicating proper mechanical engagement.
3. **Wiring:** Strip approximately 7-9mm of insulation from the control wires. Insert the prepared wires into the screw terminals of the contact block. Ensure no stray wire strands are present.
4. **Secure Connections:** Tighten the terminal screws firmly to ensure a good, low-resistance electrical connection. Do not overtighten, as this can damage the terminals.
5. **Verification:** After wiring, use a multimeter to verify continuity across the contact terminals when actuated and de-actuated, and to ensure there are no unintended short circuits before restoring power.
6. **Power Restoration:** Once installation is complete and verified, safely restore power to the equipment.

6. OPERATION

The 800F-X10 is a Normally Open (NO) contact block. This means that when the associated pushbutton or selector switch is in its unactuated (rest) position, the electrical contact is open, preventing current flow. When the pushbutton is pressed or the selector switch is actuated, the contact closes, allowing current to flow and activating the connected control circuit.

- **Normally Open (NO):** Contact is open when the operator is at rest; it closes when the operator is actuated.
- **Actuation:** The contact block's state changes in direct response to the mechanical action of an Allen-Bradley 800F series operator (e.g., pushbutton, selector switch).

7. MAINTENANCE

The Allen-Bradley 800F-X10 Contact Block is designed for long-term, reliable operation with minimal maintenance requirements. However, periodic checks are recommended to ensure continued optimal performance.

- **Periodic Inspection:** During routine equipment maintenance, visually inspect the contact block and its wiring for any signs of physical damage, wear, corrosion, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the contact block with a dry, soft, lint-free cloth. Do not use solvents, abrasive cleaners, or excessive moisture, as these can damage the component.
- **Terminal Tightness:** Re-check the tightness of the terminal screws during routine equipment maintenance to prevent intermittent connections or overheating.

8. TROUBLESHOOTING

This section outlines common issues and potential solutions for the 800F-X10 Contact Block.

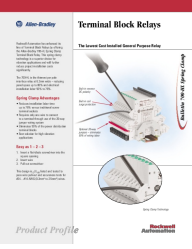
Problem	Possible Cause	Solution
Contact not closing/opening	Loose wiring connection	With power off, check and tighten terminal screws.
Contact not closing/opening	Faulty operator (pushbutton/switch)	Inspect the associated operator for mechanical damage or malfunction. Replace if necessary.
Contact not closing/opening	Damaged contact block	With power off, visually inspect the contact block for physical damage. If damaged, replace the contact block.
Intermittent operation	Loose wiring or debris in contacts	With power off, re-secure all wiring connections; inspect for and carefully remove any debris from the contact area.
Overheating	Exceeding current/voltage ratings	Verify the circuit design and ensure that the contact block's specified current and voltage ratings are not being exceeded.



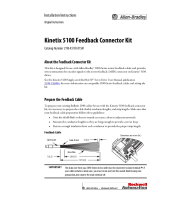
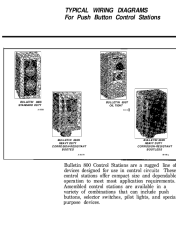

9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and access to additional resources, please refer to the official Allen-Bradley documentation provided with your product or visit the Rockwell Automation website. Contact your authorized Allen-Bradley distributor for local support.

Allen-Bradley Website: www.rockwellautomation.com/en-us/brands/allen-bradley.html

Related Documents - 800F-X10

 <p>The image shows a product profile for Allen-Bradley Terminal Block Relays. It includes a title 'Terminal Block Relays', a sub-header 'The Smallest Size Available in the Relay Family', and a 'Product Profile' section. The profile lists key features: 'Relay Type: Spring Clamp', 'Mounting: DIN Rail', 'Terminal Type: Screw', 'Terminal Count: 10', 'Terminal Pitch: 5.08mm (0.200in)', 'Terminal Size: #14-16 AWG', 'Terminal Material: Brass', 'Terminal Finish: Tin Plated', 'Terminal Color: Silver', 'Terminal Shape: Round', 'Terminal Spacing: 2.54mm (0.100in)', 'Terminal Length: 12.7mm (0.500in)', 'Terminal Width: 6.35mm (0.250in)', 'Terminal Height: 12.7mm (0.500in)', 'Terminal Weight: 0.11g (0.004oz)', 'Terminal Volume: 0.001cm³ (0.0001in³)', 'Terminal Surface Area: 0.01cm² (0.0015in²)', 'Terminal Perimeter: 0.02cm (0.0031in)', 'Terminal Circumference: 0.01cm (0.0016in)', 'Terminal Diameter: 0.005cm (0.0008in)', 'Terminal Radius: 0.0025cm (0.0004in)', 'Terminal Area: 0.00785cm² (0.0012in²)', 'Terminal Perimeter: 0.0314cm (0.0049in)', 'Terminal Circumference: 0.0157cm (0.0024in)', 'Terminal Diameter: 0.005cm (0.0008in)', 'Terminal Radius: 0.0025cm (0.0004in)', 'Terminal Area: 0.00785cm² (0.0012in²)', 'Terminal Perimeter: 0.0314cm (0.0049in)', 'Terminal Circumference: 0.0157cm (0.0024in)'.</p>	<p>Allen-Bradley 700-HL Spring Clamp Terminal Block Relays</p> <p>Discover the Allen-Bradley 700-HL Spring Clamp Terminal Block Relay from Rockwell Automation, offering reduced installation time and costs for general purpose relay applications. Learn about its features, advantages, and specifications.</p>
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 <p>Allen-Bradley Bulletin 1102C Vacuum Contactor</p>	<p>Allen-Bradley Bulletin 1102C Vacuum Contactor - Installation, Maintenance, and Replacement Instructions</p> <p>Comprehensive guide for the Allen-Bradley Bulletin 1102C Vacuum Contactor, covering inspection, unpacking, installation, coil replacement, Control-Pak replacement, auxiliary contact installation, vacuum interrupter replacement, contact life measurement, cleaning, maintenance, integrity testing, wiring diagrams, dimensions, and replacement parts.</p>
 <p>Allen-Bradley PowerFlex 70 AC Drives</p>	<p>PowerFlex 70 AC Drives, Frames A-E: Product Information and Specifications</p> <p>Detailed product information, specifications, and selection guide for Allen-Bradley PowerFlex 70 AC Drives, covering frames A through E. Includes electrical ratings, input protection devices, wiring guidelines, and mounting clearances.</p>
 <p>Allen-Bradley Kinetix 5100 Feedback Connector Kit</p>	<p>Kinetix 5100 Feedback Connector Kit Installation Instructions</p> <p>Detailed installation instructions for the Allen-Bradley Kinetix 5100 Feedback Connector Kit (2198-K51CK-D15M), covering cable preparation, kit assembly, battery replacement, connector data, specifications, and additional resources.</p>
 <p>Allen-Bradley Bulletin 800 Control Stations</p>	<p>Allen-Bradley Bulletin 800 Control Stations: Typical Wiring Diagrams and Selection Guide</p> <p>Comprehensive guide to Allen-Bradley Bulletin 800 series push button control stations, featuring typical wiring diagrams, contact selection, pilot light selection, and circuit explanations for industrial control applications.</p>
 <p>Allen-Bradley CENTERLINE 2100 Motor Control Centers</p>	<p>CENTERLINE 2100 Motor Control Centers Selection Guide</p> <p>This selection guide provides comprehensive information on the Allen-Bradley CENTERLINE 2100 Motor Control Centers, detailing features, options, selection processes, and technical specifications for industrial motor control applications.</p>