

Allen-Bradley 1490N9

Allen-Bradley 1490N9 Series C 3/4 Inch Conduit Hub Instruction Manual

Model: 1490N9 Series C

1. INTRODUCTION

This manual provides essential information for the safe and proper installation, operation, and maintenance of the Allen-Bradley Bulletin 1490, 3/4 inch Conduit Hub, Model 1490-N9, Series C. This product is designed for use in industrial electrical applications to provide a secure connection for threaded conduit.

Please read this manual thoroughly before attempting any installation or service to ensure compliance with all safety guidelines and product specifications.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock or Fire Hazard.

- This conduit hub is designed for use **ONLY WITH THREADED CONDUIT**. Do not attempt to use with non-threaded conduit.
- Installation and maintenance must be performed by qualified personnel only, in accordance with all local and national electrical codes and regulations.
- Ensure power is disconnected and locked out before installing, inspecting, or servicing the conduit hub or any associated electrical system.
- Use this product **ONLY WHERE SPECIFIED BY ALLEN-BRADLEY** for the intended application.
- Do not modify the product in any way. Unauthorized modifications can lead to product failure, injury, or property damage.
- The product is UL Listed A206 and SP® certified, indicating compliance with specific safety standards. Ensure the installation environment is compatible with the product's ratings.

3. PRODUCT OVERVIEW

The Allen-Bradley 1490N9 Series C Conduit Hub is a robust component designed to provide a secure and sealed connection point for 3/4 inch threaded conduit in various industrial environments. It is part of the Bulletin 1490 series of conduit fittings.



Figure 3.1: Allen-Bradley 1490N9 Conduit Hub product packaging.

This image displays the original product packaging for the Allen-Bradley Bulletin 1490, 3/4 inch Conduit Hub, Model 1490-N9, Series C. The label clearly indicates its UL Listed A206 and SP certified status, and specifies its intended use with threaded conduit only, and where specified by Allen-Bradley. It is rated for various environmental conditions, including Type 1, 3, 3R, 4, 12, and 13 applications.

Key features include:

- Designed for 3/4 inch threaded conduit.
- UL Listed A206 and SP® certified for safety and performance.
- Suitable for Type 1, 3, 3R, 4, 12, 13 environmental ratings.
- Durable construction for industrial applications.

4. SETUP AND INSTALLATION

Proper installation is critical for the safe and effective operation of the conduit hub. Always adhere to the following guidelines:

1. **Preparation:** Ensure the installation area is clean, dry, and free from debris. Verify that the conduit to be used is 3/4 inch and threaded.
2. **Safety First:** Before beginning installation, ensure all power to the associated electrical system is completely disconnected and properly locked out/tagged out to prevent accidental energization.
3. **Mounting:** Securely fasten the conduit hub to the designated enclosure or junction box. Ensure the mounting surface is stable and capable of supporting the hub and connected conduit.
4. **Conduit Connection:** Thread the 3/4 inch conduit into the hub opening. Tighten the connection firmly using appropriate tools to ensure a secure and sealed fit. Do not overtighten, as this may damage the threads.
5. **Sealing:** If required by the application or local codes, apply appropriate thread sealant or sealing compound to ensure environmental integrity, especially in wet or dusty environments.
6. **Inspection:** After installation, visually inspect all connections to ensure they are tight and secure. Verify that the conduit hub is properly aligned and that there are no exposed wires or loose components.

Consult relevant Allen-Bradley documentation and local electrical codes for specific installation requirements for your application.

5. OPERATING INSTRUCTIONS

The Allen-Bradley 1490N9 Conduit Hub is a passive component designed to provide a secure and protective pathway for electrical wiring. Once properly installed, it requires no active operation. Its function is to maintain the integrity of the conduit system, protecting internal wiring from environmental factors and mechanical damage. Ensure that the conduit hub remains securely connected and free from physical damage to ensure continuous protection.

6. MAINTENANCE

Regular inspection and minimal maintenance will ensure the longevity and continued performance of the conduit hub.

- **Periodic Inspection:** Annually, or more frequently in harsh environments, inspect the conduit hub for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the hub with a soft, damp cloth. Do not use abrasive cleaners or solvents that could damage the material.
- **Connection Integrity:** Verify that the threaded conduit remains tightly secured to the hub. Retighten if any looseness is detected, ensuring not to overtighten.
- **Environmental Seal:** Check for any degradation of seals or sealants, especially in environments requiring specific ingress protection. Replace or reapply as needed.

Always ensure power is disconnected before performing any maintenance that involves touching the hub or associated wiring.

7. TROUBLESHOOTING

As a passive component, the conduit hub typically does not "malfunction." Most issues relate to improper installation or external damage.

Problem	Possible Cause	Solution
Loose conduit connection	Insufficient tightening during installation; vibration.	Ensure power is off. Retighten the conduit connection firmly. Consider using thread-locking compound if vibration is a recurring issue.
Water or dust ingress	Improper sealing; damaged hub or conduit.	Ensure power is off. Inspect for cracks or damage. Reapply thread sealant if necessary. Replace the hub if damaged.
Physical damage to hub	Impact; excessive force during installation.	Ensure power is off. Replace the damaged conduit hub immediately to maintain system integrity and safety.

If you encounter issues not listed here, or if solutions do not resolve the problem, contact a qualified electrician or Allen-Bradley technical support.

8. SPECIFICATIONS

Attribute	Detail
Product Type	Conduit Hub
Brand	Allen-Bradley
Model Number	1490N9

Attribute	Detail
Series	C
Conduit Size	3/4 Inch
Compatibility	Threaded Conduit Only
Environmental Ratings	Type 1, 3, 3R, 4, 12, 13
Certifications	UL Listed A206, SP®
Part Number (from packaging)	10781180132855

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please contact your authorized Allen-Bradley distributor or visit the official Allen-Bradley website. Ensure you have the product model number (1490N9) and series (C) available when seeking support.

This product is designed for industrial use and should be installed and maintained by qualified professionals.