

Cooper ST9

Crouse-Hinds ST9 Zinc Insulated Hub User Manual

MODEL: ST9

INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Crouse-Hinds ST9 Zinc Insulated Hub. Designed for robust performance in various industrial environments, this conduit hub ensures secure and insulated connections for electrical conduits. Please read this manual thoroughly before installation and retain it for future reference.

PRODUCT OVERVIEW

The Myers Scru-Tite Posi-Lok Insulated conduit hub, model ST9, features a trade size of 3-1/2 inches. It is constructed from zinc, providing high durability and a natural finish for enhanced resistance against corrosion. This hub is engineered for reliable use in demanding applications such as chemical, pharmaceutical, food processing, pulp/paper, and nuclear industries. Its dimensions are approximately 5 inches in diameter by 2-3/8 inches. The ST9 hub is suitable for use with NEMA 2, 3, 3R, 4, 4X, and 12 enclosures and is UL and CUL listed, ensuring compliance with safety standards.

Key Features

- **Material:** Durable zinc construction.
- **Finish:** Natural finish for corrosion resistance.
- **Insulation:** Posi-Lok insulated design.
- **Trade Size:** 3-1/2 inches.
- **Application:** Suitable for chemical, pharmaceutical, food processing, pulp/paper, and nuclear industries.
- **Enclosure Compatibility:** NEMA 2, 3, 3R, 4, 4X, and 12 enclosures.
- **Certifications:** UL and CUL listed.

Product Image



An image showing the Crouse-Hinds ST9 Zinc Insulated Hub, a cylindrical component with a red insulating ring visible at the top opening. The hub is made of zinc and features a natural finish, designed for connecting conduits.

SETUP AND INSTALLATION

Installation of the Crouse-Hinds ST9 Zinc Insulated Hub should be performed by qualified personnel in accordance with all applicable national and local electrical codes. Ensure power is disconnected before beginning any installation work.

1. **Preparation:** Verify that the conduit and enclosure openings match the 3-1/2 inch trade size of the hub. Ensure all surfaces are clean and free of debris.
2. **Mounting:** Insert the threaded end of the hub into the appropriate opening of the electrical enclosure.
3. **Securing:** Use the provided locknut (if applicable) or a compatible locknut to secure the hub tightly to the enclosure from the inside. Ensure the hub is firmly seated to maintain proper grounding and sealing.
4. **Conduit Connection:** Thread the conduit into the hub. The Posi-Lok design ensures a secure and insulated connection. Tighten the conduit firmly to prevent loosening and ensure electrical continuity.
5. **Inspection:** After installation, visually inspect all connections to ensure they are tight and properly aligned. Verify that the insulating ring is not damaged and provides adequate insulation.

OPERATING INSTRUCTIONS

The Crouse-Hinds ST9 Zinc Insulated Hub functions as a critical component in electrical conduit systems, providing a secure, insulated, and corrosion-resistant connection point between conduits and electrical enclosures. Once properly installed, the hub requires no active operation. Its primary function is passive: to maintain the integrity of the electrical system by ensuring a safe and reliable pathway for wiring while protecting against environmental factors and electrical hazards.

- Ensure the hub remains free from physical damage or excessive stress that could compromise its structural integrity or insulation.
- The insulating ring is designed to prevent abrasion of wire insulation as wires pass through the hub, contributing to long-term system reliability.
- Regularly verify that the hub's connection to the conduit and enclosure remains tight to maintain proper grounding and environmental sealing.

MAINTENANCE

The Crouse-Hinds ST9 Zinc Insulated Hub is designed for minimal maintenance due to its durable zinc construction and corrosion-resistant finish. However, periodic inspection is recommended to ensure continued optimal performance and safety.

- **Visual Inspection:** Periodically inspect the hub for any signs of physical damage, corrosion, cracks, or deformation. Pay close attention to the insulating ring for any signs of wear or damage.
- **Connection Integrity:** Check that the hub remains securely tightened to both the enclosure and the conduit. Loose connections can lead to electrical issues or compromise environmental sealing.
- **Cleaning:** If necessary, clean the exterior of the hub with a soft, dry cloth to remove dust or debris. Avoid using abrasive cleaners or solvents that could damage the finish or insulating material.
- **Environmental Factors:** In harsh environments, more frequent inspections may be required. Ensure that the hub's natural finish is adequately protecting against the specific corrosive elements present.
- **Replacement:** If any significant damage or wear is observed, the hub should be replaced immediately by a qualified electrician to maintain system safety and integrity.

TROUBLESHOOTING

While the Crouse-Hinds ST9 Zinc Insulated Hub is a passive component, issues related to its installation or integrity can impact the overall electrical system. Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Loose Conduit/Enclosure Connection	Improper tightening during installation; vibration over time.	<i>Ensure power is off.</i> Re-tighten the hub to the enclosure and the conduit connection.
Corrosion on Hub Surface	Exposure to harsh chemicals or moisture beyond design limits; damaged finish.	Clean the affected area. If corrosion is severe or structural, replace the hub. Consider additional protective measures for the environment.

Problem	Possible Cause	Solution
Damaged Insulating Ring	Physical abrasion during wire pulling; chemical exposure; age.	<i>Ensure power is off.</i> The insulating ring is integral. If damaged, the entire hub must be replaced to maintain insulation integrity.
Water/Moisture Ingress	Improper sealing during installation; damaged hub or enclosure.	<i>Ensure power is off.</i> Inspect all connections for proper sealing. Re-seal or replace the hub if necessary. Verify enclosure integrity.

Note: All troubleshooting and repair work on electrical systems should only be performed by certified and qualified electricians. Always disconnect power before attempting any inspection or repair.

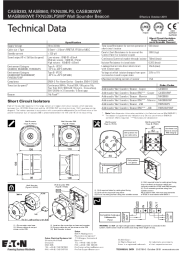

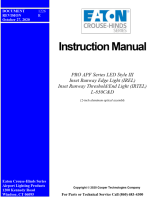

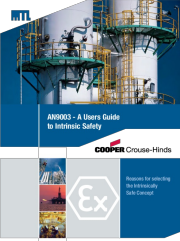

SPECIFICATIONS

Attribute	Detail
Manufacturer	Crouse Hinds
Part Number	ST9
Material	Zinc
Trade Size	3-1/2 Inch
Dimensions (Approx.)	5 Inch Diameter x 2-3/8 Inch
Enclosure Compatibility	NEMA 2, 3, 3R, 4, 4X, 12
Certifications	UL, CUL Listed
Item Package Quantity	1

WARRANTY AND SUPPORT

For specific warranty information regarding the Crouse-Hinds ST9 Zinc Insulated Hub, please refer to the documentation provided at the time of purchase or contact the manufacturer directly. General product support and technical assistance can be obtained through the official Cooper (Crouse-Hinds) customer service channels.

Please note that improper installation, unauthorized modifications, or use outside of specified operating conditions may void the product warranty.

	<p>Cooper CASB383 Addressable Wall Sounder Beacon Technical Data</p> <p>Technical specifications and compliance information for the Cooper CASB383 Addressable Wall Sounder Beacon, including supply voltage, cable types, sound output levels, environmental ratings, and order codes.</p>
	<p>Cooper Professional Thermometers: Models 24HP, 26HP, 322, 2238-12, 323, 2236-29, 2238-24</p> <p>Detailed specifications and features for Cooper professional thermometers, including oven, holding, deep-fry, candy, jelly, multi-use, and meat thermometers. Covers instrument range, accuracy, dial size, materials, and dimensions.</p>
	<p>Eaton Crouse-Hinds PRO APF Series LED Runway Light Instruction Manual</p> <p>Instruction manual for the Eaton Crouse-Hinds PRO APF Series LED Style III Inset Runway Edge Light (IREL) and Inset Runway Threshold/End Light (IRTEL), models L-850C and L-850D. Covers installation, maintenance, troubleshooting, and parts.</p>
	<p>Cooper Crouse-Hinds Replacement Parts Catalog</p> <p>A comprehensive catalog of replacement parts for Cooper Crouse-Hinds fittings, including bodies, bushings, and nuts for various series like CGB, CGD, CGE, CGK, CGBS, EBY, and EGJ.</p>
	<p>AN9003 - A User's Guide to Intrinsic Safety</p> <p>This guide provides a comprehensive overview of intrinsic safety (IS) as a low-energy signaling technique for preventing explosions in hazardous areas. It details the advantages of IS, including its global acceptance, suitability for all zones and gas classifications, and the ability for live maintenance. The document also covers system design, installation, inspection, and repair of intrinsically safe equipment, with a focus on compliance with relevant standards like ATEX and IEC.</p>
	<p>COOPER Crouse-Hinds EXH5 Series Explosionproof Electric Heater Installation, Parts, Service, and Maintenance Manual</p> <p>Comprehensive manual for COOPER Crouse-Hinds EXH5 Series 60 Hz explosionproof electric heaters. Covers installation, maintenance, troubleshooting, technical data, specifications, parts lists, and repair procedures for hazardous locations.</p>