

STI MS46-20-955-Q1-X

STI MS46-20-955-Q1-X Safety Light Curtain Transmitter User Manual

Model: MS46-20-955-Q1-X | Brand: STI

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the STI MS46-20-955-Q1-X Safety Light Curtain Transmitter. This device is designed to create a protective light barrier for industrial safety applications, detecting intrusions into hazardous areas. Please read this manual thoroughly before installation, operation, or maintenance.

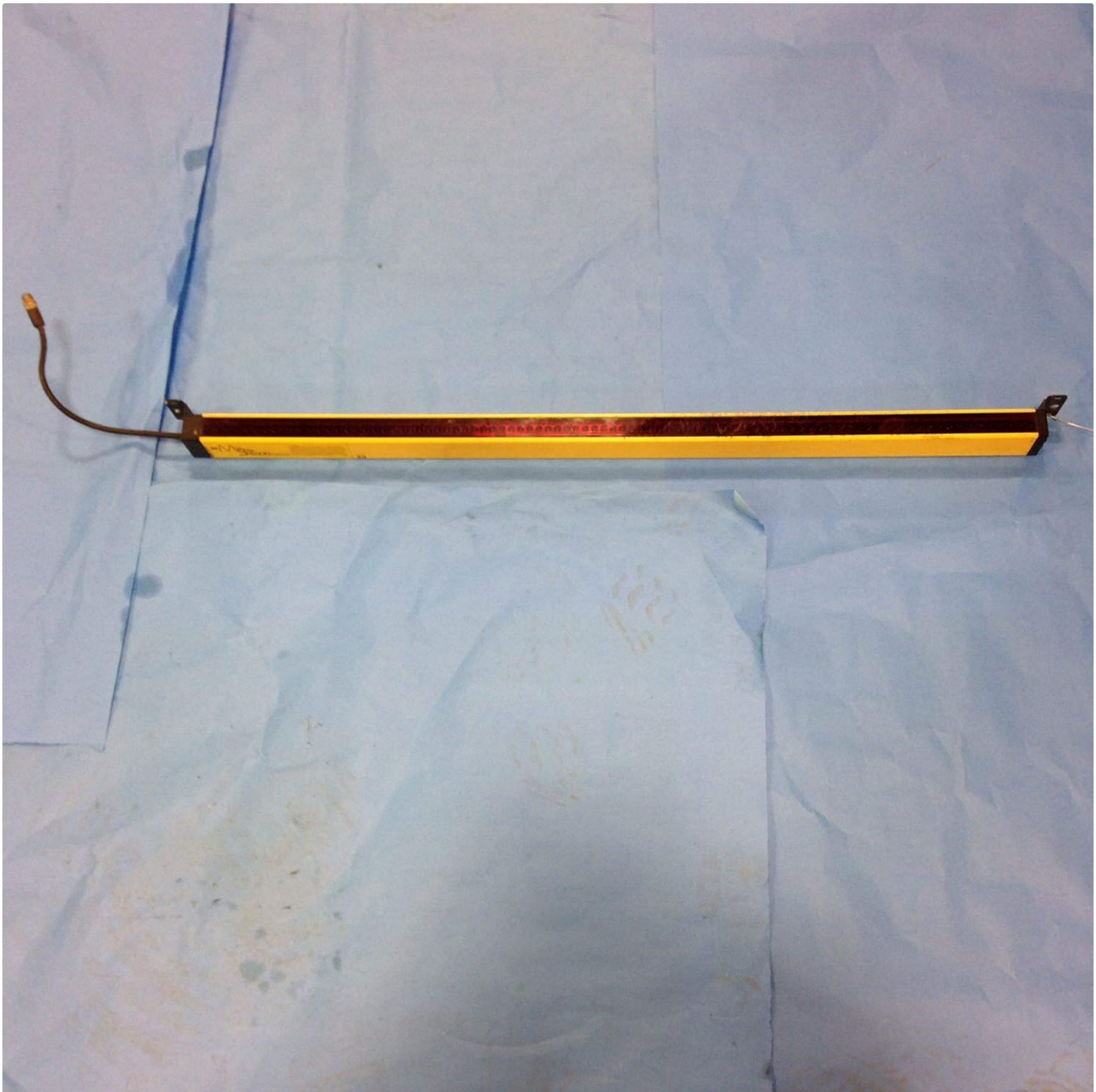


Figure 1: Overview of the STI MS46-20-955-Q1-X Safety Light Curtain Transmitter. This image shows the elongated yellow and black housing of the light curtain transmitter, with a cable extending from one end, laid on a light blue surface.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safety and performance of the light curtain. Ensure all local and national safety regulations are followed during installation.

2.1 Mounting

The transmitter should be securely mounted using appropriate brackets. Ensure the light curtain is positioned to create the desired protective zone.

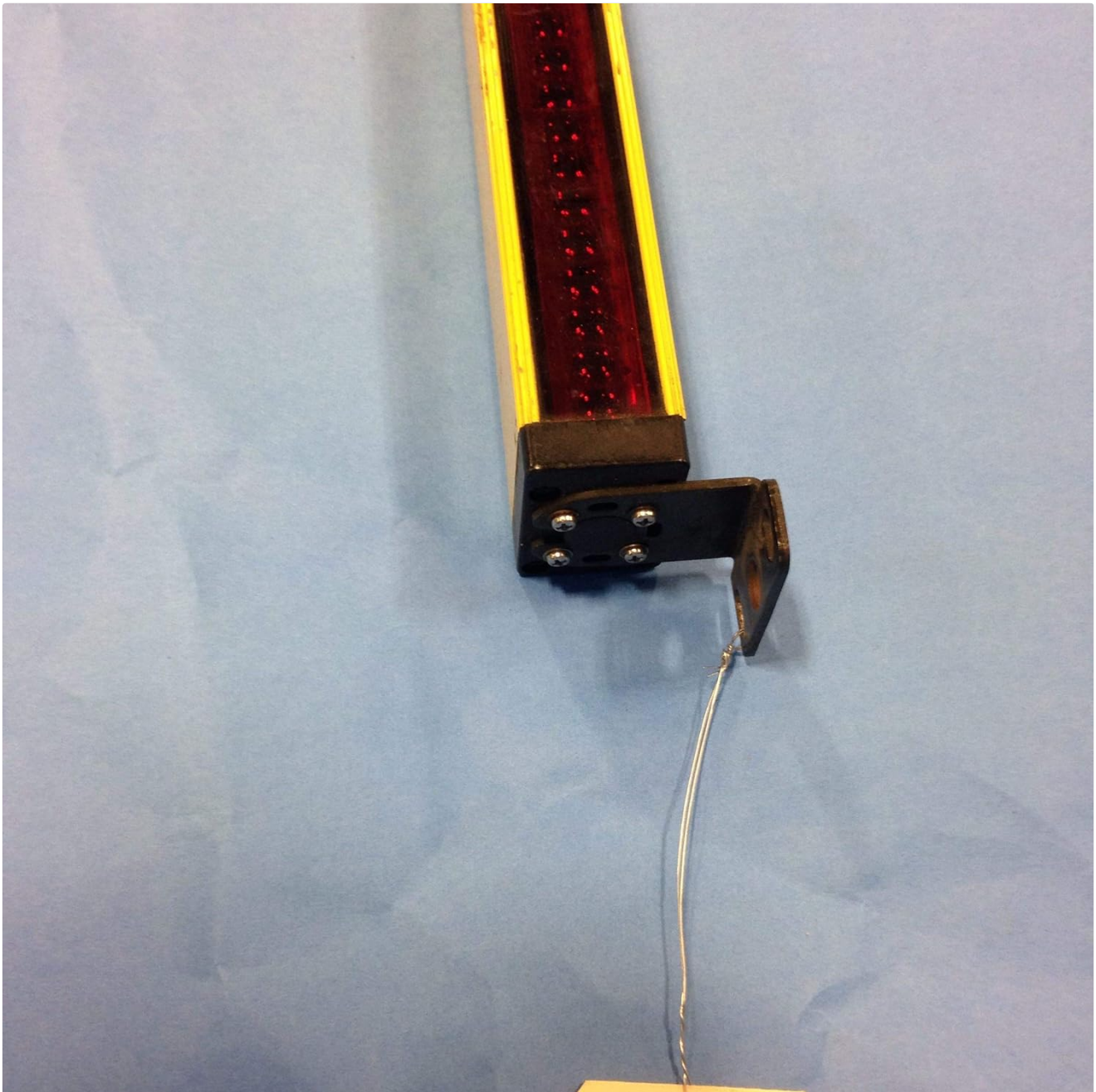


Figure 2: Close-up of the mounting bracket and end of the light curtain. This image highlights the black mounting bracket attached to the yellow light curtain housing, with visible screws securing it. A thin wire is also visible extending from the end.

2.2 Electrical Connection

Connect the transmitter to the control system according to the wiring diagram provided in the full product documentation. Ensure power is off before making any connections.

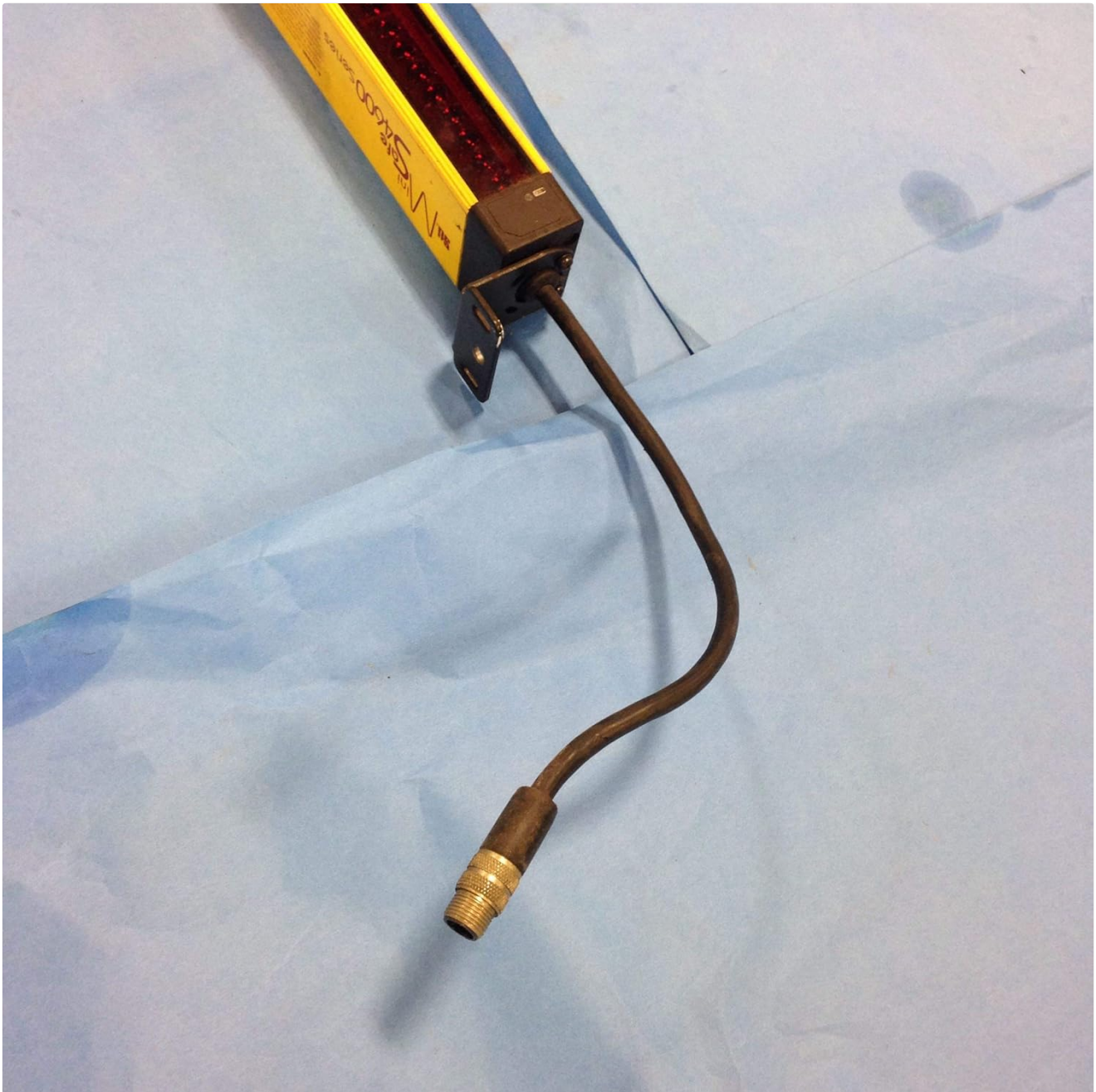


Figure 3: Detail of the electrical connector. This image shows the black cable extending from the light curtain, terminating in a silver threaded connector, ready for attachment to the control system.

2.3 Alignment

Align the transmitter with its corresponding receiver (sold separately) to ensure a clear optical path. Refer to the receiver's manual for detailed alignment procedures.

3. OPERATING INSTRUCTIONS

Once installed and aligned, the light curtain system operates by detecting interruptions in the light beams. When an object breaks the light curtain, a safety output signal is triggered.

- **Power On:** Apply power to the system. The light curtain will perform a self-check.
- **Status Indicators:** Observe the status indicators (LEDs) on both the transmitter and receiver for proper operation. Consult the full manual for indicator meanings.
- **Testing:** Regularly test the light curtain by intentionally interrupting the beams to ensure the safety output is activated.

4. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of the safety light curtain.

- **Cleaning:** Keep the optical surfaces of the transmitter and receiver clean and free from dust, dirt, or debris. Use a soft, lint-free cloth and a mild cleaning solution if necessary.
- **Inspection:** Periodically inspect cables, connectors, and mounting hardware for any signs of wear, damage, or loose connections.
- **Functional Testing:** Perform functional tests as per your facility's safety protocols, typically at the start of each shift or after any maintenance work.

5. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems, consult a qualified technician or the manufacturer.

Problem	Possible Cause	Solution
Light curtain not active	Misalignment, dirty optics, power issue, damaged cable.	Check alignment, clean optical surfaces, verify power supply, inspect cables.
False trips	Reflective surfaces, external light interference, vibration.	Shield reflective surfaces, reduce ambient light, secure mounting.

6. SPECIFICATIONS

Key technical specifications for the STI MS46-20-955-Q1-X Safety Light Curtain Transmitter.

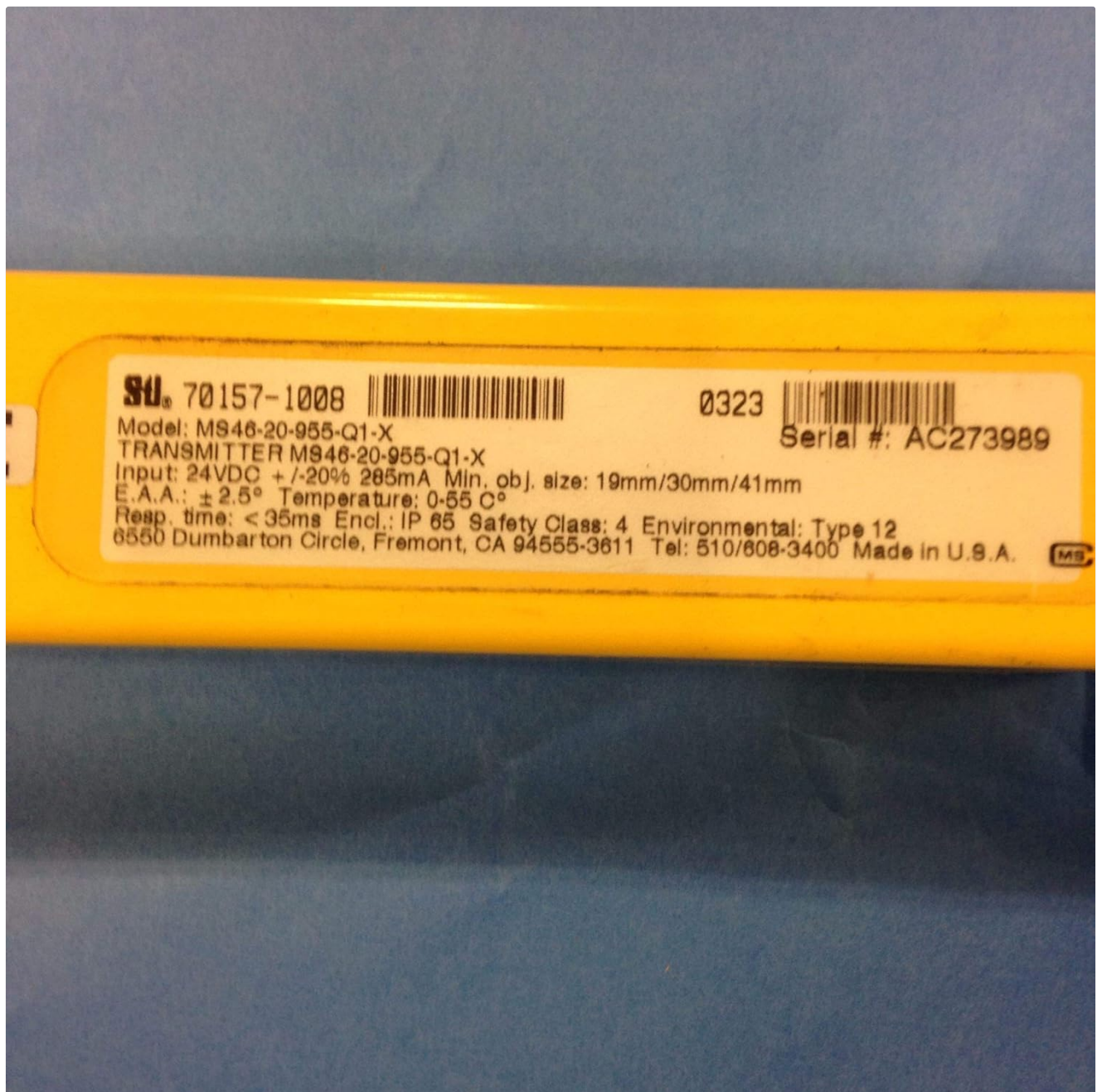


Figure 4: Product label showing detailed specifications. This image displays a yellow label with black text, providing model number, input voltage, current, response time, enclosure rating, and environmental class.

Model: MS46-20-955-Q1-X

Part Number: 70157-1008

Input Voltage: 24VDC +/-20%

Current: 285mA

Minimum Object Size: 19mm/30mm/41mm

E.A.A.: +/-2.5°

Temperature Range: 0-55°C

Response Time: <35ms

Enclosure Rating: IP 65

Safety Class: 4

Environmental Type: 12

Product Dimensions: 39.17 x 6.3 x 8.27 inches (41"D x 2"W x 2"H)

Item Weight: 2.03 Kilograms (4.48 Pounds)

Manufacturer: STI

Date First Available: September 4, 2019


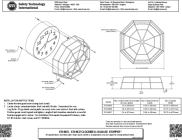
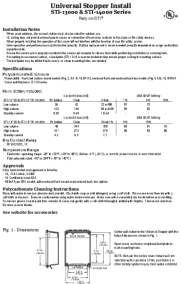

7. WARRANTY AND SUPPORT



Information regarding product warranty and customer support is typically provided with the original purchase documentation or can be found on the manufacturer's official website. Please refer to those resources for the most current and detailed information.

For technical assistance or inquiries, please contact STI customer service. Contact details are usually available on the manufacturer's website or product packaging.

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Related Documents - MS46-20-955-Q1-X

	<p>STI Universal Stopper STI-13000 & STI-14000 Series Installation Guide</p> <p>Installation guide and specifications for STI Universal Stopper models STI-13000 and STI-14000 series, covering installation notes, technical specifications, mounting options, wiring, and warranty.</p>
	<p>STI Clock/Bell Damage Stopper and Wire Guard Catalog</p> <p>Safety Technology International (STI) provides installation instructions for the STI-9635, STI-9636, and STI-9637 Clock/Bell Damage Stopper. The document also features a comprehensive catalog of STI wire guards for various applications including smoke detectors, PIR sensors, exit signs, emergency lights, beacons, sounders, and miscellaneous uses, detailing model numbers and dimensions.</p>
	<p>STI Universal Stopper Installation Guide: STI-13000 & STI-14000 Series</p> <p>Comprehensive installation guide for STI Universal Stopper models STI-13000 and STI-14000, covering specifications, mounting options, horn details, and safety information.</p>
	<p>STI Stopper II Series: Protective Cover for Fire Alarm Pull Stations - Installation & Specifications</p> <p>Comprehensive guide to the STI Stopper II Series protective cover for manual fire alarm pull stations. Features include physical damage protection, optional audible alarm, weather resistance (NEMA 3R), and ADA compliance. Details installation steps, specifications, testing approvals, and maintenance.</p>

 <p>STI ReSet Call Points</p> <p>Product description and technical specifications for STI ReSet Call Points, including features like manual reset, tamper protection, and various mounting options.</p>	<p>STI ReSet Call Points - Technical Specification and Product Overview</p> <p>Detailed information on STI ReSet Call Points, a resettable manual call point designed to mimic breaking glass while offering environmental benefits and ease of use. Includes features, specifications, and configuration options.</p>
 <p>STI Wireless Chimes</p> <p>Product description and technical specifications for STI Wireless Chimes, including features like wireless communication, motion activation, and various chime patterns.</p>	<p>STI Wireless Chimes: Home Automation Solutions</p> <p>Explore the STI Wireless Chimes product line, including the Entry Alert Chime and Wireless Motion-Activated Chime. These systems offer convenient home automation, visitor alerts, and security features with easy installation and compatibility.</p>