

# CERTIFICATE OF CONFORMITY



## 1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: FM24US0023
3. Equipment:  
(Type Reference and Name) SR-3 Tank Inspection Robot and 04260 Side Launcher
4. Name of Listing Company: Square Robot Inc.
5. Address of Listing Company: 50 D'Angelo Drive, Suite 5, Marlborough, Massachusetts 01752, United States of America

6. The examination and test results are recorded in confidential report number:

PR466921 dated 22 January 2025

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3611:2021, FM 3620:2022, FM 3810:2021, NFPA 496:2024, ANSI/UL 61010-1:2023, ANSI/UL 121201:2017

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

See Annex

11. The marking of the equipment shall include:

See Annex

12. Description of Equipment:

See Annex

Certificate issued by:

J.E. Marquedant  
VP, Manager - Electrical Systems

22 January 2025

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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F 347 (Jul 24)



## **SCHEDULE**

US Certificate of Conformity No: FM24US0023

### **13. Specific Conditions of Use:**

None

### **14. Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### **15. Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

### **16. Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
22 January 2025	Original Issue.

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**FM Approvals**

# **ANNEX**

## **SR-3 Tank Inspection Robot**

### **Equipment Ratings:**

Nonincendive for Class I, Division 2, Group D, T5, Tambient = -20°C to +43°C

### **Markings:**

Class I, Division 2, Group D, T5, Operating Temp -20°C to +43°C

### **Description of Equipment:**

The SR-3 is an autonomous battery-powered robot designed for inspection and measurement of floors of above-ground storage tanks while the tanks are filled with a liquid such as diesel fuel or other petroleum distillates. The robot is housed within a machined aluminum enclosure and is propelled by external propellers, driven by brushless electric motors. The robot provides external communications by way of an optical fiber.

Where the free volume between the stored liquid and the roof of the tank is classified as Class I, Division 1, entry and exit of the robot is limited to being by way of the tank's side inspection / maintenance port in conjunction with the 04260 Side Launcher. Where the free volume between the stored liquid and the roof of the tank is either unclassified or classified as Class I, Division 2, Group D, the robot can enter and exit the tank through either the inspection / maintenance port on the roof of the tank or through the side inspection / maintenance port in conjunction with the 04260 Side Launcher.

### **Operation Temperature Range:**

The ambient operating temperature range for the SR-3 robot is -20°C to +43°C.

### **Electrical Data:**

The robot is powered by internal rechargeable battery pack with no external power source during operation. The robot has the following electrical ratings; Charging: U = 29.4 Vdc; I = 15 A, Auxiliary power: U = 24 – 28 Vdc, I = 5 A, Battery: U = 25.9 Vdc, 55 Ah.

## **04260 Side Launcher**

### **Equipment Ratings:**

Purged and pressurized (Type Y) for Class I, Division 1, Group D, T5, Tambient = -25°C to +55°C

### **Markings:**

Purged Pressurized Type Y for Class I, Division 1, Group D, T5, Tambient = -25°C to +55°C

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### **Description of Equipment:**

The 04260 Side Launcher bolts to an inspection/maintenance port on the side of the storage tank to facilitate ingress and egress of the SR-3 inspection robot. The side launcher utilizes Nitrogen gas Type Y purged/pressurized protection to evacuate what would otherwise be a Class I, Division 1 hazardous atmosphere. For chamber Type 04260RevA, the Side Launcher is customer support driven (user supplied) where the customer would supply the wooden cribbing to support and level the side launcher at the site. For chamber Type 04260RevB, the Side Launcher comes with integral telescopic legs for support and leveling incorporate self-contained hydraulic load cells. Type 04260RevC, the Side Launcher comes with integral telescopic legs for support and leveling but with optional self-contained hydraulic load cells. For all types of Side Launchers, integral viewing window(s) are supplied and a 50psig pressure relief valve is used. The maximum specification weight of a side launcher assembly (Type 04260RevA, Type 04260RevB, Type 04260RevC) is 3225lbs.

### **Operation Temperature Range:**

The ambient operating temperature range for the 04260 Side Launcher is -25°C to +55°C.

Approved model variants include:

Type 04260RevA

Type 04260RevB

Type 04260RevC

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