

# SI-RF Non-Contact RF Safety Switch



## Product Overview

For complete technical information about this product, including installation instructions, application requirements and guidelines, EU Declaration of Conformity, technical specifications, and accessories, see [www.bannerengineering.com](http://www.bannerengineering.com) and search for the instruction manual, p/n 208885.



- Sensor - Actuator pair with Unique, High and Low code options
- One SI-RF Safety Switch will meet Cat 4, PL e, or SIL CL 3 safety ratings
- Series connection of up to 32 sensors, maintaining the highest levels of safety
- Diagnostic options include In-Series Diagnostic (ISD) bussed signals and on-sensor LED codes
- PNP auxiliary outputs on select models indicate door status
- Protection class rating of IP69

## Models

| Model       | Device   | SI-RF Models                     |                               |                                                                |                                                                |
|-------------|----------|----------------------------------|-------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
|             |          | Coding                           | Diagnostics                   | Reset                                                          | Connector                                                      |
| SI-RFST-UP8 | Sensor   | Unique                           | Series PNP                    | Automatic                                                      | 250 mm cable with an 8-pin M12/<br>Euro-style quick disconnect |
| SI-RFST-HP8 |          | High                             |                               |                                                                |                                                                |
| SI-RFST-LP8 |          | Low                              |                               |                                                                |                                                                |
| SI-RFSL-UP8 |          | Unique                           |                               |                                                                |                                                                |
| SI-RFSL-HP8 |          | High                             |                               |                                                                |                                                                |
| SI-RFSL-LP8 |          | Low                              |                               |                                                                |                                                                |
| SI-RFDT-UP8 |          | Unique                           | In-Series Diagnostic<br>(ISD) | Automatic                                                      |                                                                |
| SI-RFDT-HP8 |          | High                             |                               |                                                                |                                                                |
| SI-RFDT-LP8 |          | Low                              |                               |                                                                |                                                                |
| SI-RFDL-UP8 |          | Unique                           |                               | Manual                                                         |                                                                |
| SI-RFDL-HP8 |          | High                             |                               |                                                                |                                                                |
| SI-RFDL-LP8 |          | Low                              |                               |                                                                |                                                                |
| SI-RFPT-U2M |          | Unique                           | Single PNP                    |                                                                | Automatic                                                      |
| SI-RFPT-H2M |          | High                             |                               |                                                                |                                                                |
| SI-RFPT-L2M |          | Low                              |                               |                                                                |                                                                |
| SI-RFPT-UP5 |          | Unique                           |                               | 250 mm cable with an 5-pin M12/<br>Euro-style quick disconnect |                                                                |
| SI-RFPT-HP5 |          | High                             |                               |                                                                |                                                                |
| SI-RFPT-LP5 |          | Low                              |                               |                                                                |                                                                |
| SI-RF-A     | Actuator | Actuator/target for all switches |                               |                                                                |                                                                |

In addition to the SI-RF sensor, a basic SI-RF system requires an actuator, a cable and a safety monitoring device.

## Contact Us

Banner Engineering Corp. headquarters is located at:

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For worldwide locations and local representatives, visit [www.bannerengineering.com](http://www.bannerengineering.com).



## Responsibilities of the Qualified Person

To access the SI-RF Radio Frequency Safety Switch instruction manual (p/n 208885):

- Go to [www.bannerengineering.com/si-rf](http://www.bannerengineering.com/si-rf) to download the manual in the language you require; or
- Call Banner at 1-888-373-6767 or call your local Banner Representative to request a manual



### WARNING:

It is the responsibility of the Qualified Person who configures, installs, or maintains the SI-RF Safety Switch system to:

- Carefully read, understand, and follow the information in the SI-RF Safety Switch instruction manual
- Perform a risk assessment of the specific machine guarding application
- Determine what safeguarding devices and methods are appropriate per ISO 13849-1
- Properly install, configure, and then verify that the entire safeguarding system is working as intended
- Periodically re-verify, as needed, that the entire safeguarding system is working as intended

**Failure to follow any of these recommendations may create a dangerous condition that may lead to serious injury or death.**

Pour accéder au manuel d'utilisation SI-RF Radio Frequency Safety Switch (réf. 208885) :

- Rendez-vous sur le site [www.bannerengineering.com/si-rf](http://www.bannerengineering.com/si-rf) pour télécharger le manuel dans la langue de votre choix, ou
- Contactez Banner au 1-888-373-6767 ou appelez votre représentant Banner local pour demander le manuel.



### WARNING:

La personne qualifiée chargée d'assurer la configuration, l'installation ou la maintenance de SI-RF Safety Switch est tenue de :

- Lire avec attention, bien comprendre et suivre les instructions du manuel du système SI-RF Safety Switch
- Effectuer une évaluation des risques de l'application de protection spécifique à la machine
- Identifier les dispositifs et les méthodes de protection exigés par la norme ISO 13849-1
- Installer et configurer correctement le système de protection puis vérifier qu'il fonctionne de la façon prévue
- Révérer périodiquement, si nécessaire, que l'ensemble du système de protection fonctionne comme prévu

**Le non respect de ces consignes peut créer une situation potentiellement dangereuse susceptible d'entraîner des blessures graves, voire mortelles.**

So beziehen Sie die Bedienungsanleitung für den SI-RF Radio Frequency Safety Switch (Ident-Nr. 208885):

- Laden Sie die Anleitung in der gewünschten Sprache von unserer Website ([www.bannerengineering.com/si-rf](http://www.bannerengineering.com/si-rf)) herunter oder
- fordern Sie die Anleitung telefonisch bei der Banner-Hotline unter der Rufnummer +1-888-373-6767 oder bei einer Banner-Vertretung in Ihrer Nähe an.



### WARNING:

Die qualifizierte Person, die die SI-RF Safety Switch -Anlage konfiguriert, installiert oder wartet, hat folgende Pflichten:

- Die Informationen in der Anleitung für den SI-RF Safety Switch gründlich durchzulesen, zu verstehen und zu befolgen
- Eine Risikobeurteilung der spezifischen Maschinenschutzanwendung durchzuführen
- Zu ermitteln, welche Schutzeinrichtungen und -methoden gemäß ISO 13849-1 angezeigt sind
- Das gesamte Schutzsystem fachgerecht zu installieren, zu konfigurieren und anschließend auf die bestimmungsgemäße Funktion zu überprüfen
- Nach Bedarf regelmäßig zu überprüfen, ob das gesamte Schutzsystem wie beabsichtigt arbeitet

**Wenn diese Empfehlungen nicht befolgt werden, kann eine Gefahrensituation entstehen, die zu schweren bis tödlichen Verletzungen führen kann.**

Per accedere al manuale di istruzioni dello SI-RF Radio Frequency Safety Switch (codice 208885):

- Andare al sito [www.bannerengineering.com/si-rf](http://www.bannerengineering.com/si-rf) per scaricare il manuale nella lingua desiderata; oppure
- Contattare Banner al numero telefonico 1-888-373-6767 oppure il rappresentante Banner locale per richiedere un manuale



### WARNING:

È responsabilità della Persona Qualificata incaricata della configurazione, installazione o manutenzione del sistema SI-RF Safety Switch quella di:

- Leggere attentamente, assicurarsi di avere compreso e seguire le indicazioni riportate nel manuale di istruzioni del SI-RF Safety Switch
- Eseguire una valutazione dei rischi dell'applicazione di protezione della macchina specifica
- Determinare i dispositivi di protezione e i metodi appropriati secondo la norma ISO 13849-1
- Installare, configurare l'intero sistema di protezione e assicurarsi che funzioni come previsto
- In base alle esigenze, ricontrollare periodicamente che l'intero sistema di protezione funzioni come previsto

**Il mancato rispetto di una delle presenti prescrizioni può creare situazioni di pericolo, con conseguenti gravi lesioni personali o morte.**

Para obtener el manual de instrucciones del SI-RF Radio Frequency Safety Switch (p/n 208885):

- Visite [www.bannerengineering.com/si-rf](http://www.bannerengineering.com/si-rf) para descargar el manual en el idioma que necesite; o
- Llame a Banner al 1-888-373-6767 o llame a su representante local de Banner para solicitar un manual



### WARNING:

Es responsabilidad de la persona calificada que configura, instala o mantiene el sistema de SI-RF Safety Switch, lo siguiente:

- Leer con atención, entender y seguir la información en el manual de instrucciones del SI-RF Safety Switch
- Realizar una evaluación de riesgos que incluya la aplicación de protección de la máquina específica
- Determinar cuáles son los dispositivos y los métodos de protección adecuados según la ISO 13849-1
- Instalar, configurar y verificar de manera adecuada que todo el sistema de protección funcione como está previsto
- Periódicamente volver a verificar, según sea necesario, que todo el sistema de protección funcione según lo previsto

**El incumplimiento de cualquiera de estas responsabilidades puede crear una condición peligrosa que puede provocar lesiones graves o la muerte.**