

# SI-RF Non-Contact RF Safety Switch



## Product Overview



For complete technical information about this product, including installation instructions, application requirements and guidelines, technical specifications, and accessories, go to [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 quick disconnect |           |   |
| SI-RFST-HP8 |  | High         |                            |            |   |           |   |
| SI-RFST-LP8 |  | Low          |                            |            |   |           |   |
| SI-RFSL-UP8 |  | Unique       |                            | Manual     |   |           |   |
| SI-RFSL-HP8 |  | High         |                            |            |   |           |   |
| SI-RFSL-LP8 |  | Low          |                            |            |   |           |   |
| SI-RFDT-UP8 |  | Unique       | In-Series Diagnostic (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 |  | Actuator     | Unique                     | Single PNP | Automatic                                       | 2 m cable |   |
| SI-RFPT-H2M |  |              | High                       |            |   |           |   |
| SI-RFPT-L2M |  |              | Low                        |            |   |           |   |
| SI-RFPT-UP5 |  |              | Unique                     |            |   |           | 250 mm cable with an 5-pin M12 quick disconnect |
| SI-RFPT-HP5 |  |              | High                       |            |   |           |   |
| SI-RFPT-LP5 |  |              | Low                        |            |   |           |   |
| SI-RF-A     | Actuator/target for all switches             |              |                            |            |   |           |   |
| SI-RF-A2    | Low Profile 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.

To order a 250 mm cable unit with a stainless steel connector, add a **CR** after the **P8** or **P5**. For example, **SI-RFDT-UP8** becomes **SI-RFDT-UP8CR**. Contact Banner Engineering for availability.

## Contact Us

Banner Engineering Corp. headquarters is located at:  
 9714 Tenth Avenue North  
 Minneapolis, MN 55441, USA  
 Phone: + 1 888 373 6767

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

## Responsibilities of Qualified Personnel

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 Personnel 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 risk reduction measures are appropriate per the results of the risk assessment
- Properly install, configure, and then verify that the risk reduction measures are working as intended
- Periodically re-verify, as needed, that the risk reduction measures are working as intended

**Failure to follow any of these responsibilities may potentially create a dangerous condition that could 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:**

Il incombe au personnel qualifié 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 mesures de limitation du risque appropriées en fonction des résultats de l'étude de risques
- Installer et configurer correctement le ou les dispositifs de protection destinés à limiter le risque puis vérifier qu'ils fonctionnent de la façon prévue
- Révérer périodiquement, s'il y a lieu, que ces dispositifs de protection fonctionnent toujours comme il se doit

**Le non-respect de l'une de ces responsabilités peut potentiellement créer une condition dangereuse pouvant 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:**

Es liegt in der Verantwortung des qualifizierten Personals,

- Die Informationen in der Anleitung für den SI-RF Safety Switch gründlich durchzulesen, zu verstehen und zu befolgen
- Eine Risikobeurteilung der spezifischen Maschinenschutzanwendung durchzuführen
- Ermitteln, welche Maßnahmen zur Risikominderung aufgrund der Ergebnisse der Risikobeurteilung angemessen sind
- Das gesamte Schutzsystem fachgerecht installieren, konfigurieren und anschließend auf die bestimmungsgemäße Funktion überprüfen
- Je nach Bedarf regelmäßig nachprüfen, ob die Maßnahmen zur Risikominderung wie beabsichtigt funktionieren

**Die Nichtbeachtung einer dieser Verantwortlichkeiten kann zu gefährlichen Zuständen führen, die zu schweren oder tödlichen Verletzungen führen können.**

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 Personale Qualificato:

- 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 quali misure di riduzione del rischio sono appropriate in base ai risultati della valutazione del rischio
- Installare e configurare correttamente il sistema, quindi verificare che le misure di riduzione del rischio assicurino i risultati previsti
- Ricontrollare periodicamente, in base alla necessità, che tali misure di riduzione del rischi continuino ad assicurare i risultati previsti

**La mancata osservanza di una qualsiasi di queste responsabilità può potenzialmente creare una condizione pericolosa che potrebbe causare lesioni gravi o mortali.**

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 del personal calificado:

- Leer con atención, entender y seguir la información en el manual de instrucciones de la SI-RF Safety Switch
- Realizar una evaluación de riesgos que incluya la aplicación de protección de la máquina específica
- Determinar qué medidas de reducción de riesgos son apropiadas según los resultados de la evaluación de riesgos
- Instale, configure y luego verifique correctamente que las medidas de reducción de riesgos funcionan según lo previsto
- Vuelva a verificar periódicamente, según sea necesario, que las medidas de reducción de riesgos funcionan según lo previsto

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

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