

# SI-MAG Non-Contact Magnetic Safety Interlock 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 210255.

- A two-piece coded magnetic field safeguarding device
- One switch and coded magnet properly placed on a door can achieve the highest levels of safety (Control Reliable, Cat 4, PL e or SIL CL 3) when properly monitored by a Safety Monitoring Module
- Accommodating to misalignment
- Coded magnets minimize the risk of intentional defeat
- Sealed components resist water and dirt
- Three housing styles available for flat or 30 mm barrel mounting
- Can be used for safety or non-safety interlocking and position monitoring

## Models

Magnet/Sensor Pair	Magnet Sensor		Coded Magnet
	Model	Connection	
	<b>SI-MAGB1SM</b>	3 m cable with flying leads	<b>SI-MAGB1MM</b> (Switching distance: 4 mm to 14 mm) OR <b>SI-MAGB1MM90</b> (90° orientation) (Switching distance: 4 mm to 14 mm) OR <b>SI-MAGB1MMHF</b> (Switching distance: 8 mm to 16 mm)
	<b>SI-MAGB1SMCO</b>	3 m cable with flying leads; cable opposite	
	<b>SI-MAGB1SMQD</b> (UL-approved only)	4-pin M8 Pico-style QD connector	
	<b>SI-MAGB1SMCOQD</b> (UL-approved only)	4-pin M8 Pico-style QD connector	
	<b>SI-MAGB2SM</b>	3 m cable with flying leads	<b>SI-MAGB2MM</b> (Switching distance: 3 mm to 14 mm)
	<b>SI-MAGB2SMQD</b> (UL-approved only)	4-pin M8 Pico-style QD connector	
	<b>SI-MAGB3SM</b>	3 m cable with flying leads	<b>SI-MAGB3MM</b> (Switching distance: 5 mm to 14 mm)
	<b>SI-MAGB3SMQD</b> (UL-approved only)	4-pin M12/Euro-style QD connector	

The magnet sensors listed have a 3 m (10 ft) cable. To order 9 m (30 ft) cables models, add **w/30** to the model number (e.g. **SI-MAGB1SM w/30**). To order non-UL approved units, remove the **B**; only flying lead models are available as non-UL approved models.

A basic SI-MAG system requires an SI-MAG sensor, coded magnet, cable (for QD versions), and a safety monitoring device.

## Responsibilities of the Qualified Person

To access the SI-MAG Non-Contact Magnetic Safety Interlock Switch instruction manual (p/n 210255):

- Go to [www.bannerengineering.com](http://www.bannerengineering.com) 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-MAG Safety Switch system to:

- Carefully read, understand, and follow the information in the SI-MAG 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-MAG Non-Contact Magnetic Safety Interlock Switch (réf. 210255) :

- Rendez-vous sur le site [www.bannerengineering.com](http://www.bannerengineering.com) 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-MAG Safety Switch est tenue de :

- Lire avec attention, bien comprendre et suivre les instructions du manuel du système SI-MAG 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-MAG Non-Contact Magnetic Safety Interlock Switch (Ident-Nr. 210255):

- Laden Sie die Anleitung in der gewünschten Sprache von unserer Website ([www.bannerengineering.com](http://www.bannerengineering.com)) 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-MAG Safety Switch -Anlage konfiguriert, installiert oder wartet, hat folgende Pflichten:

- Die Informationen in der Anleitung für den SI-MAG Safety Switch gründlich durchzulesen, zu verstehen und zu befolgen
- Eine Risikobeurteilung der spezifischen Maschinenschutzanwendung durchzuführen
- Zu ermitteln, welche Schutzrichtungen 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-MAG Non-Contact Magnetic Safety Interlock Switch (codice 210255):

- Andare al sito [www.bannerengineering.com](http://www.bannerengineering.com) 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-MAG Safety Switch quella di:

- Leggere attentamente, assicurarsi di avere compreso e seguire le indicazioni riportate nel manuale di istruzioni del SI-MAG 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-MAG Non-Contact Magnetic Safety Interlock Switch (p/n 210255):

- Visite [www.bannerengineering.com](http://www.bannerengineering.com) 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-MAG Safety Switch, lo siguiente:

- Leer con atención, entender y seguir la información en el manual de instrucciones del SI-MAG 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.**