

# SI-GL42 Series Locking-Style Safety Interlock Switch



## Product Overview

SI-GL42 Series Locking-Style Safety Interlock Switch for interlocking and position monitoring

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 220476.



- Positive opening safety contacts (per IEC 60947-5-1)
- Contact monitors both the presence of the actuator and if it is locked into the interlock
- Choice of two locking mechanism types:
  - Spring lock with energized solenoid release
  - Energized solenoid lock with spring release
- All models have an integrated manual release mechanism (front and back)
- Four stainless steel actuator options
- Actuator head rotatable in 90° increments providing five actuator positions (one vertical option)
- Many different actuator and monitoring contact configurations to satisfy any application
- Lightweight yet robust design (plastic body but the mechanically stressed components like the rotating head are metal)
- IP67 environmental rating making the unit suitable for demanding industrial environments
- Insulated device (IEC 60947-5-1)
- M12 connector options (contact Banner Engineering for pre-wired M12 connector options)

## Models

A complete safety system is typically made up of two interlocks, two actuators, two cables, and a safety monitoring device. The use of an emergency release mechanism depends on the application.

Model Number	Solenoid Voltage	Locking Method	Actuator Contacts	Solenoid Monitor Contacts	Wiring
SI-GL42DM11-11	24 V AC/DC	Solenoid	1 NC/1 NO	1 NC/1 NO	Wiring Chamber
SI-GL42DM20-11			2 NC	1 NC/1 NO	Wiring Chamber
SI-GL42DM21-10			2 NC/1 NO	1 NC	Wiring Chamber
SI-GL42DM30-10			3 NC	1 NC	Wiring Chamber
SI-GL42DM20-20			2 NC	2 NC	Wiring Chamber
SI-GL42DM01-21			1 NO	2 NC/1 NO	Wiring Chamber
SI-GL42DM10-21			1 NC	2 NC/1 NO	Wiring Chamber
SI-GL42DM01-20Q13			1 NO	2 NC	Two 5-pin M12 Connector
SI-GL42DS11-11	24 V AC/DC	Spring	1 NC/1 NO	1 NC/1 NO	Wiring Chamber
SI-GL42DS20-11			2 NC	1 NC/1 NO	Wiring Chamber
SI-GL42DS21-10			2 NC/1 NO	1 NC	Wiring Chamber
SI-GL42DS30-10			3 NC	1 NC	Wiring Chamber
SI-GL42DS20-20			2 NC	2 NC	Wiring Chamber
SI-GL42DS01-21			1 NO	2 NC/1 NO	Wiring Chamber
SI-GL42DS10-21			1 NC	2 NC/1 NO	Wiring Chamber
SI-GL42DS01-20Q13			1 NO	2 NC	Two 5-pin M12 Connector
SI-GL42DS01-20Q01	1 NO	2 NC	One 8-pin M12 Connector		

## Contact Us

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

## Responsibilities of Qualified Personnel

To access the SI-GL42 Series Locking-Style Safety Interlock Switch instruction manual (p/n 220476):

- 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 Personnel to:

- Carefully read, understand, and follow the information in the SI-GL42 Interlock 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-GL42 Series Locking-Style Safety Interlock Switch (réf. 220476):

- 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:**

Il incombe au personnel qualifié de:

- Lire avec attention, bien comprendre et suivre les instructions du manuel du système SI-GL42 Interlock 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-GL42 Series Locking-Style Safety Interlock Switch (Ident-Nr. 220476):

- 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:**

Es liegt in der Verantwortung des qualifizierten Personals,

- Die Informationen in der Anleitung für den SI-GL42 Interlock 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-GL42 Series Locking-Style Safety Interlock Switch (codice 220476):

- 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 Personale Qualificato:

- Leggere attentamente, assicurarsi di avere compreso e seguire le indicazioni riportate nel manuale di istruzioni del SI-GL42 Interlock 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-GL42 Series Locking-Style Safety Interlock Switch (p/n 220476):

- 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 del personal calificado:

- Leer con atención, entender y seguir la información en el manual de instrucciones de la SI-GL42 Interlock 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.**