

Installation Instructions

Original Instructions



Allen-Bradley

by ROCKWELL AUTOMATION

POINT Guard I/O Safety Modules

Catalog Numbers 1734-IB8S, 1734-IB8SK, 1734-OB8S, 1734-OB8SK, 1734-IE4S, 1734-IE4SK, 1734-OBV2S, 1734-OBV2SK



ATTENTION: Read this document and the documents listed in the Additional Resources section about installation, configuration and operation of this equipment before you install, configure, operate or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

注意: 在安装、配置、操作和维护本产品前, 请阅读本文档以及“其他资源”部分列出的有关设备安装、配置和操作的相应文档。除了所有适用规范、法律和标准的相关要求之外, 用户还必须熟悉安装和接线说明。

安装、调整、投运、使用、组装、拆卸和维护等各项操作必须由经过适当训练的专业人员按照适用的操作规范实施。

如果未按照制造商指定的方式使用该设备, 则可能会损害设备提供的保护。

ATENCIÓN: Antes de instalar, configurar, poner en funcionamiento o realizar el mantenimiento de este producto, lea este documento y los documentos listados en la sección Recursos adicionales acerca de la instalación, configuración y operación de este equipo. Los usuarios deben familiarizarse con las instrucciones de instalación y cableado y con los requisitos de todos los códigos, leyes y estándares vigentes.

El personal debidamente capacitado debe realizar las actividades relacionadas a la instalación, ajustes, puesta en servicio, uso, ensamblaje, desensamblaje y mantenimiento de conformidad con el código de práctica aplicable. Si este equipo se usa de una manera no especificada por el fabricante, la protección provista por el equipo puede resultar afectada.

ATENÇÃO: Leia este e os demais documentos sobre instalação, configuração e operação do equipamento que estão na seção Recursos adicionais antes de instalar, configurar, operar ou manter este produto. Os usuários devem se familiarizar com as instruções de instalação e fiação além das especificações para todos os códigos, leis e normas aplicáveis.

É necessário que as atividades, incluindo instalação, ajustes, colocação em serviço, utilização, montagem, desmontagem e manutenção sejam realizadas por pessoal qualificado e especializado, de acordo com o código de prática aplicável.

Caso este equipamento seja utilizado de maneira não estabelecida pelo fabricante, a proteção fornecida pelo equipamento pode ficar prejudicada.

ВНИМАНИЕ: Перед тем как устанавливать, настраивать, эксплуатировать или обслуживать данное оборудование, прочитайте этот документ и документы, перечисленные в разделе «Дополнительные ресурсы». В этих документах изложены сведения об установке, настройке и эксплуатации данного оборудования. Пользователи обязаны ознакомиться с инструкциями по установке и прокладке соединений, а также с требованиями всех применимых норм, законов и стандартов.

Все действия, включая установку, наладку, ввод в эксплуатацию, использование, сборку, разборку и техническое обслуживание, должны выполняться обученным персоналом в соответствии с применимыми нормами и правилами.

Если оборудование используется не предусмотренным производителем образом, защита оборудования может быть нарушена.

注意: 本製品を設置、構成、稼動または保守する前に、本書および本機器の設置、設定、操作についての参考資料の該当箇所に記載されている文書に目を通してください。ユーザは、すべての該当する条例、法律、規格の要件に加えて、設置および配線の手順に習熟している必要があります。

設置調整、運転の開始、使用、組立て、解体、保守を含む諸作業は、該当する実施規則に従って訓練を受けた適切な作業員が実行する必要があります。本機器が製造メーカーにより指定されていない方法で使用されている場合、機器により提供されている保護が損なわれる恐れがあります。

ACHTUNG: Lesen Sie dieses Dokument und die im Abschnitt „Weitere Informationen“ aufgeführten Dokumente, die Informationen zu Installation, Konfiguration und Bedienung dieses Produkts enthalten, bevor Sie dieses Produkt installieren, konfigurieren, bedienen oder warten. Anwender müssen sich neben den Bestimmungen aller anwendbaren Vorschriften, Gesetze und Normen zusätzlich mit den Installations- und Verdrahtungsanweisungen vertraut machen.

Arbeiten im Rahmen der Installation, Anpassung, Inbetriebnahme, Verwendung, Montage, Demontage oder Instandhaltung dürfen nur durch ausreichend geschulte Mitarbeiter und in Übereinstimmung mit den anwendbaren Ausführungsvorschriften vorgenommen werden.

Wenn das Gerät in einer Weise verwendet wird, die vom Hersteller nicht vorgesehen ist, kann die Schutzfunktion beeinträchtigt sein.

ATTENTION : Lisez ce document et les documents listés dans la section Ressources complémentaires relatifs à l'installation, la configuration et le fonctionnement de cet équipement avant d'installer, configurer, utiliser ou entretenir ce produit. Les utilisateurs doivent se familiariser avec les instructions d'installation et de câblage en plus des exigences relatives aux codes, lois et normes en vigueur.

Les activités relatives à l'installation, la réglage, la mise en service, l'utilisation, l'assemblage, le démontage et l'entretien doivent être réalisées par des personnes formées selon le code de pratique en vigueur.

Si cet équipement est utilisé d'une façon qui n'a pas été définie par le fabricant, la protection fournie par l'équipement peut être compromise.

주의: 본 제품 설치, 설정, 작동 또는 유지 보수하기 전에 본 문서를 포함하여 설치, 설정 및 작동에 관한 참고 자료 섹션의 문서들을 반드시 읽고 숙지하십시오. 사용자는 모든 관련 규정, 법규 및 표준에서 요구하는 사항에 대해 반드시 설치 및 배선 지침을 숙지해야 합니다.

설치, 조정, 가동, 사용, 조립, 분해, 유지보수 등 모든 작업은 관련 규정에 따라 적절한 교육을 받은 사용자를 통해서만 수행해야 합니다.

본 장비를 제조사가 명시하지 않은 방법으로 사용하면 장비의 보호 기능이 손상될 수 있습니다.

ATTENZIONE Prima di installare, configurare ed utilizzare il prodotto, o effettuare interventi di manutenzione su di esso, leggere il presente documento ed i documenti elencati nella sezione "Altre risorse", riguardanti l'installazione, la configurazione ed il funzionamento dell'apparecchiatura. Gli utenti devono leggere e comprendere le istruzioni di installazione e cablaggio, oltre ai requisiti previsti dalle leggi, codici e standard applicabili.

Le attività come installazione, regolazioni, utilizzo, assemblaggio, disassemblaggio e manutenzione devono essere svolte da personale adeguatamente addestrato, nel rispetto delle procedure previste.

Qualora l'apparecchio venga utilizzato con modalità diverse da quanto previsto dal produttore, la sua funzione di protezione potrebbe venire compromessa.

DIKKAT: Bu ürünün kurulumu, yapılandırılması, işletilmesi veya bakımı öncesinde bu dokümanı ve bu ekipmanın kurulumu, yapılandırılması ve işletimi ile ilgili ilave Kaynaklar bölümünde yer listelenmiş dokümanları okuyun. Kullanıcılar yürürlükteki tüm yönetmelikler, yasalar ve standartların gereksinimlerine ek olarak kurulum ve kablolama talimatlarını da öğrenmek zorundadır.

Kurulum, ayarlama, hizmete alma, kullanma, parçaları birleştirme, parçaları sökme ve bakım gibi aktiviteler sadece uygun eğitimli almış kişiler tarafından yürürlükteki uygulama yönetmeliklerine uygun şekilde yapılabilir.

Bu ekipman üretici tarafından belirlenmiş amacın dışında kullanılırsa, ekipman tarafından sağlanan koruma bozulabilir.

注意事項: 在安装、設定、操作或維護本產品前, 請先閱讀此文件以及列於「其他資源」章節中有關安裝、設定與操作此設備的文件。使用者必須熟悉安裝和配線指示, 並符合所有法規、法律和標準要求。

包括安裝、調整、交付使用、使用、組裝、拆卸和維護等動作都必須交由已經過適當訓練的人員進行, 以符合適用的實作法規。

如果將設備用於非製造商指定的用途時, 可能會造成設備所提供的保護功能受損。

POZOR: Než začnete instalovat, konfigurovat či provozovat tento výrobek nebo provádět jeho údržbu, přečtěte si tento dokument a dokumenty uvedené v části Dodatečné zdroje ohledně instalace, konfigurace a provozu tohoto zařízení. Uživatelé se musejí vedle požadavků všech relevantních vyhlášek, zákonů a norem nutně seznámit také s pokyny pro instalaci a elektrické zapojení.

Činnosti zahrnující instalaci, nastavení, uvedení do provozu, užívání, montáž, demontáž a údržbu musí vykonávat vhodně proškolený personál v souladu s příslušnými prováděcími předpisy.

Pokud se toto zařízení používá způsobem neodpovídajícím specifikaci výrobce, může být narušena ochrana, kterou toto zařízení poskytuje.

UWAGA: Przed instalacją, konfiguracją, użytkowaniem lub konserwacją tego produktu należy przeczytać niniejszy dokument oraz wszystkie dokumenty wymienione w sekcji Dodatkowe źródła omawiające instalację, konfigurację i procedury użytkowania tego urządzenia. Użytkownicy mają obowiązek zapoznać się z instrukcjami dotyczącymi instalacji oraz oprzewodowania, jak również z obowiązującymi kodeksami, prawem i normami.

Działania obejmujące instalację, regulację, przekazanie do użytkowania, użytkowanie, montaż, demontaż oraz konserwację muszą być wykonywane przez odpowiednio przeszkolony personel zgodnie z obowiązującym kodeksem postępowania.

Jeśli urządzenie jest użytkowane w sposób inny niż określony przez producenta, zabezpieczenie zapewniane przez urządzenie może zostać ograniczone.

OBES! Läs detta dokument samt dokumentet, som står listat i avsnittet Övriga resurser, om installation, konfiguration och drift av denna utrustning innan du installerar, konfigurerar eller börjar använda eller utföra underhållsarbete på produkten. Användaren måste bekanta sig med instruktioner för installation och kabeldragning, förutom krav enligt gällande koder, lagar och standarder.

Åtgärder som installation, justering, service, användning, montering, demontering och underhållsarbete måste utföras av personal med lämplig utbildning enligt lämpligt bruk.

Om denna utrustning används på ett sätt som inte anges av tillverkaren kan det hända att utrustningens skyddsanordningar försätts ur funktion.

LET OP: Lees dit document en de documenten die genoemd worden in de paragraaf Aanvullende informatie over de installatie, configuratie en bediening van deze apparatuur voordat u dit product installeert, configureert, bedient of onderhoud. Gebruikers moeten zich vertrouwd maken met de installatie en de bedringsinstructies, naast de vereisten van alle toepasselijke regels, wetten en normen.

Activiteiten zoals het installeren, afstellen, in gebruik stellen, gebruiken, monteren, demonteren en het uitvoeren van onderhoud mogen uitsluitend worden uitgevoerd door hiervoor opgeleid personeel en in overeenstemming met de geldende praktijkregels.

Indien de apparatuur wordt gebruikt op een wijze die niet is gespecificeerd door de fabrikant, dan bestaat het gevaar dat de beveiliging van de apparatuur niet goed werkt.



ATTENTION: In case of malfunction or damage, no attempts at repair should be made. The module should be returned to the manufacturer for repair. Do not dismantle the module.



ATTENTION: Personnel responsible for the application of safety-related programmable electronic systems (PES) shall be aware of the safety requirements in the application of the system and shall be trained in using the system.



ATTENTION: This equipment is certified for use only within the surrounding air temperature range of -20...+55 °C (-4...+131 °F). The equipment must not be used outside of this range.



ATTENTION: Use only a soft dry anti-static cloth to wipe down equipment. Do not use any cleaning agents.

Environment and Enclosure



ATTENTION: This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in EN/IEC 60664-1), at altitudes up to 2000 m (6562 ft) without derating. This equipment is not intended for use in residential environments and may not provide adequate protection to radio communication services in such environments.

This equipment is supplied as open-type equipment for indoor use. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The enclosure must have suitable flame-retardant properties to prevent or minimize the spread of flame, complying with a flame spread rating of 5VA or be approved for the application if nonmetallic. The interior of the enclosure must be accessible only by the use of a tool. Subsequent sections of this publication may contain more information regarding specific enclosure type ratings that are required to comply with certain product safety certifications.

In addition to this publication, see the following:

- Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#), for more installation requirements.
- NEMA Standard 250 and EN/IEC 60529, as applicable, for explanations of the degrees of protection provided by enclosures.

European Hazardous Location Approval

The following applies to products marked **CE**, **II 3 G**:

- Are Equipment Group II, Equipment Category 3, and comply with the Essential Health and Safety Requirements relating to the design and construction of such equipment given in Annex II to Directive 2014/34/EU. See the EC Declaration of Conformity at: <http://www.rockwellautomation.com/global/certification/overview.page> for details.
- The type of protection is "Ex ec IIC T4 Gc according to EN IEC 60079-0 and EN 60079-7.
- Comply to Standards EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018, reference number DEMKO 09 ATEX 0919970X Rev. 2.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to ATEX directive 2014/34/EU.
- May have catalog numbers followed by a "K" to indicate a conformal coating option.

IEC Hazardous Location Approval

The following applies to products with IECEx certification:

- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification to IEC 60079-0.
- The type of protection is "Ex ec IIC T4 Gc according to IEC 60079-0 and IEC 60079-7.
- Comply to Standards IEC 60079-0, 7th Edition and IEC 60079-7, 5.1 Edition, reference IECEx certificate number IECEx UL 20.0093X.
- May have catalog numbers followed by a "K" to indicate a conformal coating option.



WARNING: If you connect or disconnect wiring while the field-side power is on, an electric arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

Special Conditions for Safe Use



WARNING:

- This equipment is not resistant to sunlight or other sources of UV radiation.
- This equipment shall be mounted in an ATEX/IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in EN/IEC 60529) and used in an environment of not more than Pollution Degree 2 (as defined in EN/IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- This equipment shall be used within its specified ratings defined by Rockwell Automation.
- Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.
- Provision shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140% of the peak rated voltage when applied in Zone 2 environments.
- This equipment must be used only with ATEX/IECEx certified Rockwell Automation® backplanes.
- The instructions in the user manual shall be observed.

Removal and Insertion Under Power (RIUP)



WARNING: When you insert or remove the module while backplane power is on, an electric arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding. Repeated electric arcing causes excessive wear to contacts on both the module and its mating connector. Worn contacts may create electrical resistance that can affect module operation.

Removable Terminal Blocks



WARNING: When you connect or disconnect the removable terminal block (RTB) with field side power applied, an electric arc can occur. This could cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding.

Electrical Safety Considerations



ATTENTION: To comply with the CE Low Voltage Directive (LVD), this equipment, and all connected I/O, must be powered from a safety extra low voltage (SELV) or protected extra low voltage (PELV) compliant source. For UL-compliant applications, the 1734-IB8S, 1734-OB8S, and 1734-OBV2S modules, and all connected I/O, must be powered from a SELV- or PELV-compliant power source that is rated 150VA maximum.

For UL-compliant applications, the 1734-IE4S module, the module's field power and connected I/O devices must be powered from a Class 2-compliant, limited voltage/limited current power source.

Prevent Electrostatic Discharge



ATTENTION: This equipment is sensitive to electrostatic discharge, which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- Touch a grounded object to discharge potential static.
- Wear an approved grounding wriststrap.
- Do not touch connectors or pins on component boards.
- Do not touch circuit components inside the equipment.
- Use a static-safe workstation, if available.
- Store the equipment in appropriate static-safe packaging when not in use.

CCC	CNCA-C23-01:2019 强制性产品认证实施规则 防爆电气, 符合 GB 3836.1-2010 爆炸性环境 第1部分: 设备通用要求 GB 3836.3-2010 爆炸性环境 第3部分: 由增安型"e"保护的 设备
	CNCA-C23-01:2019 CCC Implementation Rule Explosion-Proof Electrical Products, compliant with: GB 3836.1-2010 Explosive atmospheres - Part 1: Equipment-General requirements GB 3836.3-2010 Explosive atmospheres - Part 3: Equipment protection by increased safety "e" 关于重要安装说明和警告的中文翻译. 请查看我们的网站 rok.auto/certifications/CCC

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations.

Products marked "CL I, DIV 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.

North American Hazardous Location Approval



WARNING:
Explosion Hazard

- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.
- Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Substitution of components may impair suitability for Class I, Division 2.
- If this product contains batteries, they must only be changed in an area known to be nonhazardous.

Informations sur l'utilisation de cet équipement en environnements dangereux.

Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.



AVERTISSEMENT:
Risque d'Explosion

- Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement.
- Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. Fixer tous les connecteurs externes reliés à cet équipement à l'aide de vis, loquets coulissants, connecteurs filetés ou autres moyens fournis avec ce produit.
- La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2.
- S'assurer que l'environnement est classé non dangereux avant de changer les piles.

About the Modules

Use the POINT Guard I/O™ safety modules in the POINT I/O™ platform to distribute safety I/O on a safety-control network that meets the requirements up to and including SIL CL 3, and PLe, Cat. 4 as defined in IEC 61508, IEC 61511, IEC 62061, and ISO 13849-1. You can use the modules with GuardLogix®, Compact GuardLogix, and SmartGuard™ controllers.

Mount the Module

IMPORTANT

- Follow these guidelines when installing a module:
- Use the module in an environment that is within the general specifications.
 - Use the module in an enclosure rated at IP54 (EN/IEC 60579) or higher.
 - Use DIN rail that is 35 mm (1.38 in.) wide to mount the terminal base in the control panel.
 - Place other heat sources an appropriate distance away from the module to maintain ambient temperatures around the module below specified maximums.
 - You can mount your module horizontally or vertically.

To mount the module, you must install the mounting base, connect the module to the mounting base, and then connect the removable terminal block. The mounting base assembly (catalog number 1734-TB or 1734-TBS) consists of a mounting base and a removable terminal block. Alternatively, you can use the POINT I/O one-piece mounting base (catalog number 1734-TOP, 1734-TOPS, 1734-TOP3, or 1734-TOP3S).

IMPORTANT

You need two mounting base assemblies for each POINT Guard I/O module. Do not use 1734-TB3 or 1734-TB3S mounting base assemblies.



WARNING: For ATEX applications, Do not exceed 31.2V DC maximum.

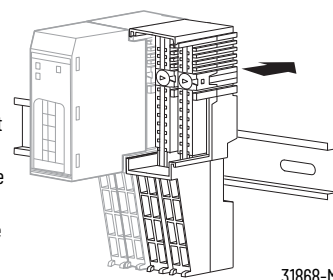


ATTENTION: This product is grounded through the DIN rail to chassis ground. Use zinc-plated yellow-chromate steel DIN rail to help assure proper grounding. The use of other DIN rail materials (for example, aluminum or plastic) that can corrode, oxidize, or are poor conductors, can result in improper or intermittent grounding. Secure DIN rail to mounting surface approximately every 200 mm (7.8 in.) and use end-anchors appropriately. Be sure to ground the DIN rail properly. See the Industrial Automation Wiring and Grounding Guidelines, Rockwell Automation publication 1770-4.1, for more information.

To install the mounting base, complete the following steps:

1. Position the mounting base as shown.
2. Slide the mounting base, letting the interlocking side pieces engage the adjacent module, power supply, or adapter.
3. Press firmly to seat the mounting base on the DIN rail until the base snaps into place.

TIP: In high vibration environments, install slide locks helps prevent the movement of the mounting base along the DIN rail.



31868-M

See the terminal base installation instructions for detailed information on installation and removal. Always follow instructions and torque specifications in terminal base installation instructions. See [Additional Resources on page 4](#) for terminal base installation publications.

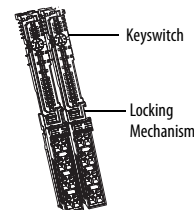
Connect the Module to the Mounting Base

Install the module before or after installing the mounting base.



WARNING: When you insert or remove the module while backplane power is on, an electric arc can occur. This arc could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding. Repeated electric arcs cause excessive wear to contacts on both the module and its mating connector. Worn contacts can create electrical resistance that can affect module operation.

1. With a screwdriver, rotate the keyswitches on the mounting base clockwise until the number required for the type of module aligns with the notch in the base. Monitor which mounting base gets installed on the left and right of each module.



Cat. No.	Key 1 (Left)	Key 2 (Right)
1734-IB8S, 1734-IB8SK	8	1
1734-OB8S, 1734-OB8SK	8	2
1734-OBV2S, 1734-OBV2SK	8	2
1734-IE4S, 1734-IE4SK	8	3

2. Verify the DIN rail (orange) lock screw is in the horizontal position. You cannot insert the module if the mounting-base locking mechanism is unlocked.
3. Insert the module straight down into the two side-by-side mounting bases, press to secure, and lock the module.

Connect the Removable Terminal Block

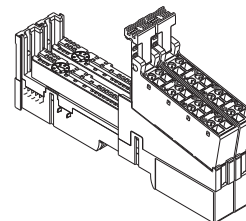
If a removable terminal block (RTB) is supplied with your mounting base assembly, you must remove it by pulling up on the RTB handle. This action lets you remove and replace the base as necessary without removing any of the wiring.



WARNING: When you connect or disconnect the removable terminal block (RTB) with field-side power applied, an electric arc can occur. This arc could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

To reinsert the RTB, complete the following steps.

1. Insert the RTB end opposite the handle into the base unit. The end has a curved section that engages with the mounting base.
2. Rotate the terminal block into the mounting base until it locks itself in place.
3. If an I/O module is installed, snap the RTB handle into place on the module.



For information on how to wire the I/O module, see the POINT Guard I/O Safety Modules User Manual, publication [1734-UM013](#).

Specifications

Attribute	1734-IB8S, 1734-IB8SK	1734-OB8S, 1734-OB8SK	1734-IE4S, 1734-IE4SK	1734-OBV2S, 1734-OBV2SK
Temperature, operating IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	-20 °C < Ta < +55 °C (-4 °F < Ta < +131 °F)			
Temperature, surrounding air, max	55 °C (131 °F)			
Enclosure type rating	None (open-style)			
Voltage and current ratings				
Field Power	19.2...28.8V DC, 25 mA (no load), SELV/PELV 150VA max	19.2...28.8V DC, 50 mA (no load), SELV/PELV 150VA max	19.2...28.8V DC, 65 mA, Class 2	19.2...28.8V DC, 65 mA (no load), SELV/PELV 150VA max
Output/Sensor Output ⁽¹⁾	19.2...28.8V DC 700 mA max per output @ 40 °C (104 °F) 500 mA max per output @ 55 °C (131 °F) 2.8 A max per module @ 40 °C (104 °F) 0.55 A max per module @ 55 °C (131 °F)	19.2...28.8V DC 1.0 A max per output @ 40 °C (104 °F) 500 mA max per output @ 55 °C (131 °F) 8.0 A max per module @ 40 °C (104 °F) 2.0 A max per module @ 55 °C (131 °F)	24V DC 150 mA max per output @ 55 °C (131 °F)	19.2...28.8V DC 1.25 A max per output @ 40 °C (104 °F) 500 mA max per output @ 55 °C (131 °F) 2.0 A max per module @ 40 °C (104 °F) 800 mA max per module @ 55 °C (131 °F)
Input	11...30V DC, 3.5 mA @ 40 °C (104 °F), SELV/ PELV 150VA max 11...28.8V DC, 3.5 mA @ 55 °C (131 °F), SELV/PELV 150VA max	-	+/-10V DC Voltage 0...20 mA Current	-
Tach	-	-	0...24V DC	-
Backplane	5V DC, 125 mA	5V DC, 125 mA	5V DC, 110 mA	5V DC, 125 mA
Isolation voltage	50V (continuous), Basic Insulation Type, between field side and system No isolation between individual channels			
Wire type	-	-	Shielded on signal ports	-
Pilot duty rating	Test Outputs: Not rated	Outputs: Not rated	Sensor Outputs: Not rated	DC-13, DC-14 Inrush Electronically limited 1.8 A
North America temp code	T4			
ATEX temp code	T4			
IEC temp code	T4			

(1) Sensor Output only applies to the 1734-IE4S and 1734-IESK modules.

Additional Resources

Resource	Description
POINT Guard I/O Safety Modules User Manual, publication 1734-UM013	Describes how to install, configure, program, and use POINT Guard I/O Safety controllers.
POINT I/O Wiring Base Assembly Installation Instructions, publication 1734-IN511	Provides installation information on 1734-TB and 1734-TBS assemblies.
POINT I/O One-piece Wiring Base Assembly Installation Instructions, publication 1734-INO28	Provides installation information on 1734-TOP, 1734-TOPS, 1734-TOP3, and 1734-TOP3S assemblies.
GuardLogix 5570 and Compact GuardLogix 5370 Controller Systems Safety Reference Manual, publication 1756-RM099	Provides information on safety application requirements for GuardLogix 5570 and Compact GuardLogix 5370 controllers in Studio 5000 Logix Designer® application projects.
GuardLogix 5580 and Compact GuardLogix 5380 Controller Systems Safety Reference Manual, publication 1756-RM012	Provides information on safety application requirements for GuardLogix 5580 and Compact GuardLogix 5380 controllers in Studio 5000 Logix Designer application projects.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, http://www.rockwellautomation.com/global/certification/overview.page	Provides declarations of conformity, certificates, and other certification details.

Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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For technical support, visit rok.auto/support.

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Publication 1734-INO16E-EN-P - December 2020 | Supersedes Publication 1734-INO16D-EN-P- March 2019

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PN-597093