



FLEX 5000 Terminal Base Assembly Modules

Terminal Base Assembly Catalog Numbers 5094-TB3, 5094-TB3S, 5094-TB3T, 5094-TB3TS, 5094-TB3W, 5094-TB3WS, 5094-TB3I, 5094-TB3IS, 5094-TB3IT, 5094-TB3ITS, 5094-TB32V, 5094-TB32VS, 5094-TB32C, 5094-TB32CS, 5094-TB3AC, 5094-TB3ACS, 5094-TB3XT, 5094-TB3SXT, 5094-TB3TXT, 5094-TB3TSXT, 5094-TB3WXT, 5094-TB3WSXT, 5094-TB3IXT, 5094-TB3ISXT, 5094-TB3ITXT, 5094-TB3ITSXT, 5094-TB32VXT, 5094-TB32VSXT, 5094-TB32CXT, 5094-TB32CSXT, 5094-TB3ACXT, 5094-TB3ACSXT

Mounting Base Catalog Numbers 5094-MB, 5094-MBXT

Removable Terminal Block Catalog Numbers 5094-RTB3, 5094-RTB3S, 5094-RTB3T, 5094-RTB3TS, 5094-RTB3W, 5094-RTB3WS, 5094-RTB3I, 5094-RTB3IS, 5094-RTB3IT, 5094-RTB3ITS, 5094-RTB32V, 5094-RTB32VS, 5094-RTB32C, 5094-RTB32CS, 5094-RTB3AC, 5094-RTB3ACS, 5094-RTB3XT, 5094-RTB3SXT, 5094-RTB3TXT, 5094-RTB3TSXT, 5094-RTB3WXT, 5094-RTB3WSXT, 5094-RTB3IXT, 5094-RTB3ISXT, 5094-RTB3ITXT, 5094-RTB3ITSXT, 5094-RTB32VXT, 5094-RTB32VSXT, 5094-RTB32CXT, 5094-RTB32CSXT, 5094-RTB3ACXT, 5094-RTB3ACSXT

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

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Updated Back Cover	Back Cover

Product Overview

The FLEX 5000® terminal base assemblies comprise of either a 5094-MB or a 5094-MBXT, and one of the removable terminal blocks that are needed as a terminal base for your specific FLEX 5000 I/O modules. Terminal base assemblies are a required part of the FLEX 5000 I/O family.

FLEX 5000 I/O family are used with some Logix 5000® controllers and configured with the Studio 5000 Logix Designer® application. For more information on which Logix 5000 controllers and Studio 5000 Logix Designer application versions are compatible with FLEX 5000 I/O modules, see the publications that are listed in [Additional Resources on page 19](#).



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 adicionales 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, le 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, 작동, 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, yaplandırılması, işletilmesi veya bakımı öncesinde bu dokümanı ve bu ekipmanın kurulumu, yaplandırılması 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 eğitimleri 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 vyhlásek, 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 przeprowadzania, 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.

Obs! Läs detta dokument samt dokumentet, som står listat i avsnittet Övriga resurser, om installation, konfigurering och drift av denna utrustning innan du installerar, konfigurerar eller börjar använda eller utföra underhållsarbete på produkten. Användare 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 onderhoudt. Gebruikers moeten zich vertrouwd maken met de installatie en de bedradingsinstructies, 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.

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.

North American Hazardous Location Approval

The following information applies when operating this equipment in hazardous locations:	Informations sur l'utilisation de cet équipement en environnements dangereux:
<p>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.</p>	<p>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.</p>
<div style="display: flex; align-items: center;"> <div> <p>WARNING EXPLOSION HAZARD</p> <ul style="list-style-type: none"> • 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. </div> </div>	<div style="display: flex; align-items: center;"> <div> <p>AVERTISSEMENT RISQUE D'EXPLOSION</p> <ul style="list-style-type: none"> • 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 inadaptable à une utilisation en environnement de Classe I Division 2. </div> </div>



WARNING: For Class I Division 2 applications, use only Class I Division 2 listed or recognized accessories and modules approved for use within the 5094 platform.

UK and European Hazardous Location Approval

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

- 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 Schedule 1 of UKEX and Annex II to Directive 2014/34/EU. See the UKEX and EC Declaration of Conformity at [rok.auto/certifications](#) for details.
- The type of protection is "Ex ec IIC T4 Gc" according to EN IEC 60079-0, EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS, Issue Date 07/2018 and EN IEC 60079-7:2015+A1:2018 Explosive atmospheres. Equipment protection by increased safety "e".
- Comply to Standards EN IEC 60079-0, EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS, Issue Date 07/2018, EN IEC 60079-7:2015+A1:2018 Explosive atmospheres. Equipment protection by increased safety "e", reference certificate number DEMKO 17 ATEX 1922X and UL21UKEX2275X.
- 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 UKEX regulation 2016 No. 1107 and ATEX directive 2014/34/EU.

IEC Hazardous Location Approval

The following applies to products with IECEx certification: Such modules:

- 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, Explosive atmospheres - Part 0: Equipment - General requirements, Edition 7, Revision Date 2017, IEC 60079-7, 5.1 Edition revision date 2017, Explosive atmospheres - Part 7: Equipment protection by increased safety "e", reference IECEx certificate number IECEx UL 17.0075X.



WARNING: Special Conditions for Safe Use:

- This equipment is not resistant to sunlight or other sources of UV radiation.
 - This equipment shall be mounted in an UKEX/ATEX/IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (in accordance with EN/IEC 60079-0) 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.
 - Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
 - The instructions in the user manual shall be observed.
 - This equipment must be used only with UKEX/ATEX/IECEx certified Rockwell Automation backplanes.
 - 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.
 - Earthing is accomplished through mounting of modules on rail.
 - Devices shall be used in an environment of not more than Pollution Degree 2.
-

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.
-

Electrical Safety Considerations



ATTENTION:

- Do not wire more than one conductor on any terminal.
 - 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.
 - This equipment is certified for use only within the surrounding air temperature range of -40...+70 °C (-40...+158 °F) The equipment must not be used outside of this range.
 - Use only a soft dry anti-static cloth to wipe down equipment. Do not use any cleaning agents.
-

IMPORTANT

Any illustrations, charts, sample programs, and layout examples shown in this publication are intended solely for the purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability for actual use based upon the examples shown in this publication.



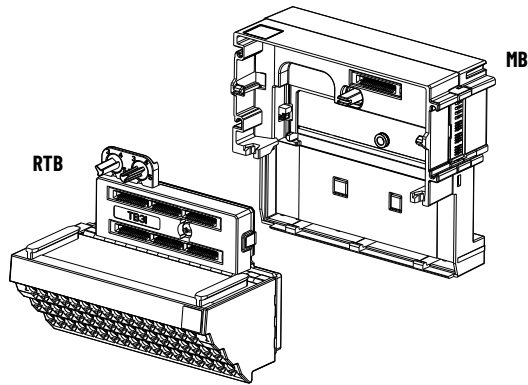
ATTENTION: Read this document and the documents listed in the [Additional Resources on page 19](#) section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.



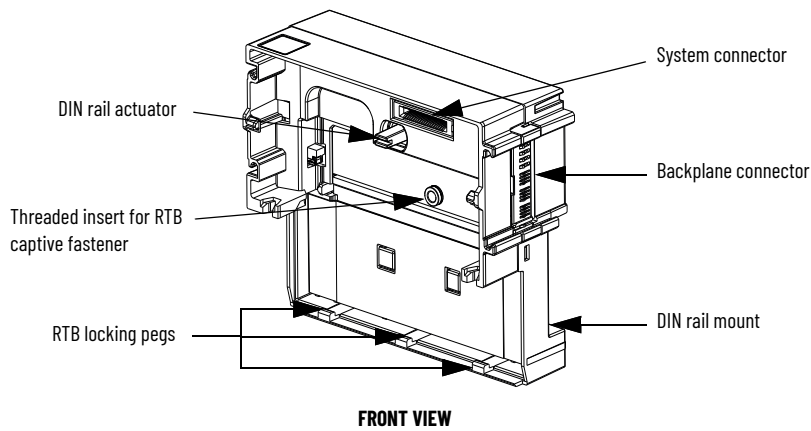
ATTENTION: Installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

About the Terminal Base Assemblies

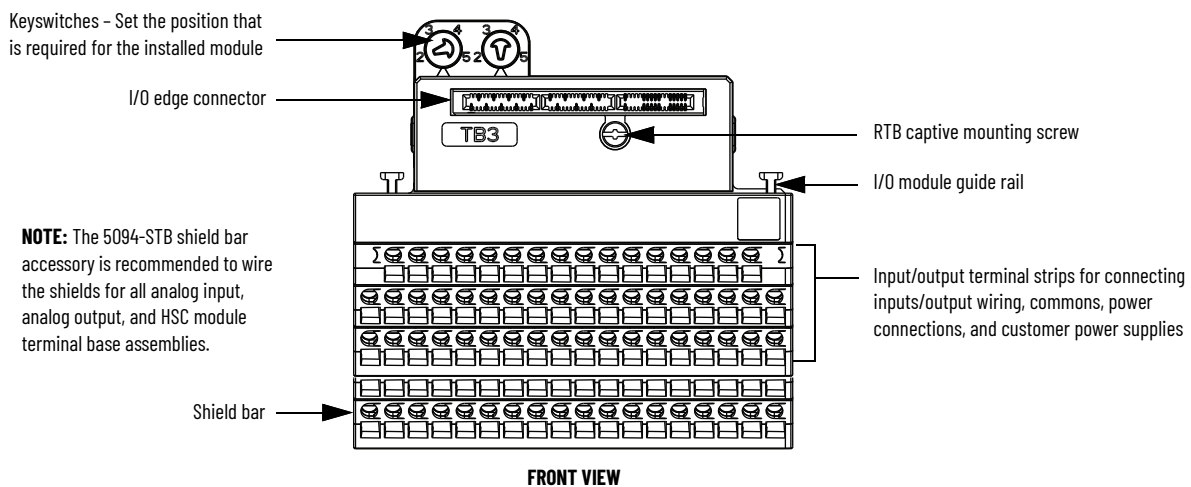
The FLEX 5000 terminal base assemblies comprise of a mounting base (MB) and a removable terminal block (RTB) depending on your specific FLEX 5000 I/O module requirements.



FLEX 5000 Mounting Bases - 5094-MB, 5094-MBXT



FLEX 5000 Removable Terminal Blocks - 5094-RTB3, 5094-RTB3S, 5094-RTB3XT, 5094-RTB3SXT



FLEX 5000 CJC Removable Terminal Blocks - 5094-RTB3T, 5094-RTB3TS, 5094-RTB3TXT, 5094-RTB3TSXT

Keyswitches - Set the position that is required for the installed module

I/O edge connector

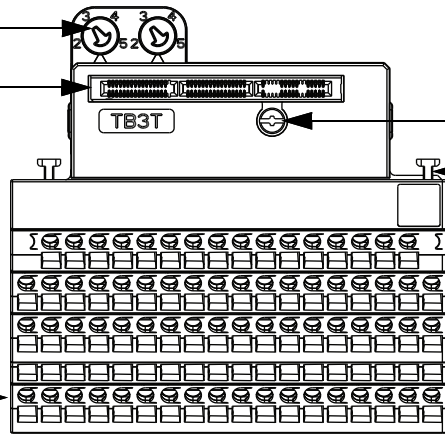
RTB captive mounting screw

I/O module guide rail

NOTE: The 5094-STB shield bar accessory is recommended to wire the shields for all analog input, analog output, and high speed signals in a 5094 terminal base assembly.

Shield bar

Input/output terminal strips for connecting inputs/output SSV wiring, commons, power connections, customer power supplies, and embedded CJC thermistor - 1 per channel



FRONT VIEW

FLEX 5000 Isolated Removable Terminal Blocks - 5094-RTB3I, 5094-RTB3IS, 5094-RTB3IXT, 5094-RTB3ISXT

Keyswitches - Set the position that is required for the installed module

I/O edge connector

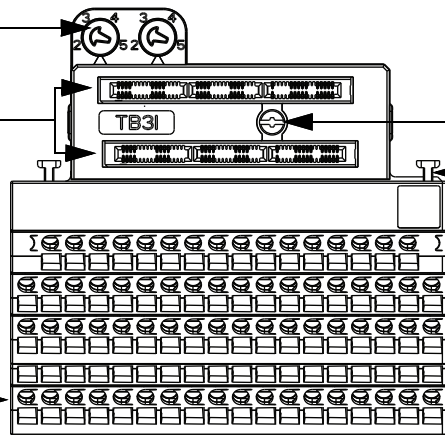
RTB captive mounting screw

I/O module guide rail

NOTE: The 5094-STB shield bar accessory is recommended to wire the shields for all analog input, analog output, and high speed signals in a 5094 terminal base assembly.

Shield bar

Input/output terminal strips for connecting inputs/output wiring, commons, power connections, and customer power supplies



FRONT VIEW

FLEX 5000 Isolated Removable Terminal Blocks - 5094-RTB3IT, 5094-RTB3ITS, 5094-RTB3ITXT, 5094-RTB3ITSXT

Keyswitches - Set the position that is required for the installed module

I/O edge connector

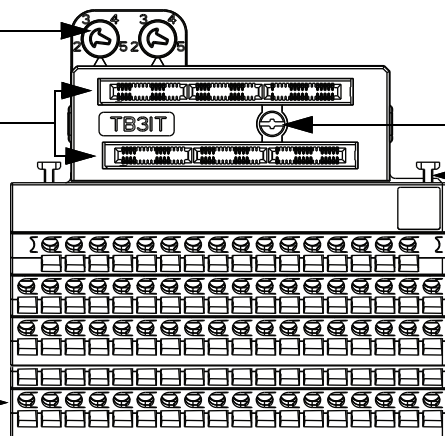
RTB captive mounting screw

I/O module guide rail

NOTE: The 5094-STB shield bar accessory is recommended to wire the shields for all analog input and analog output module terminal base assemblies.

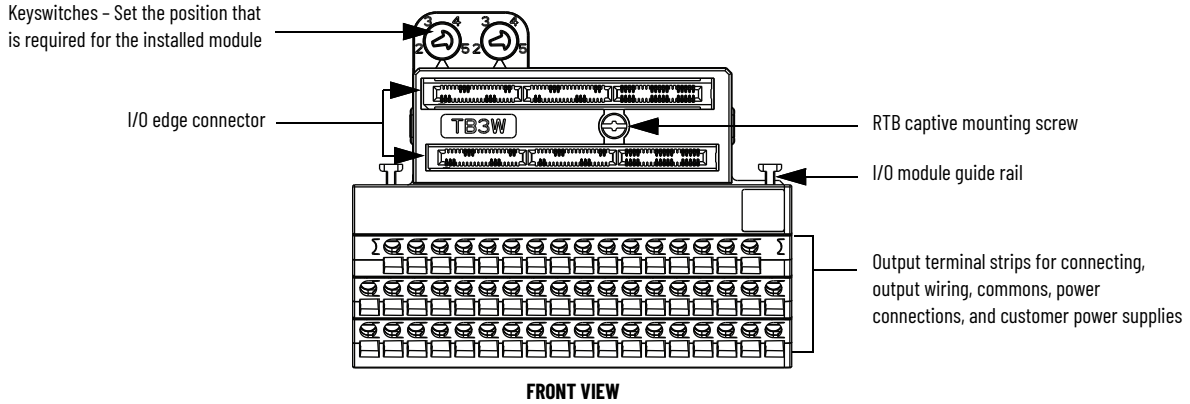
Shield bar

Input/output terminal strips for connecting inputs/output wiring, commons, power connections, and customer power supplies

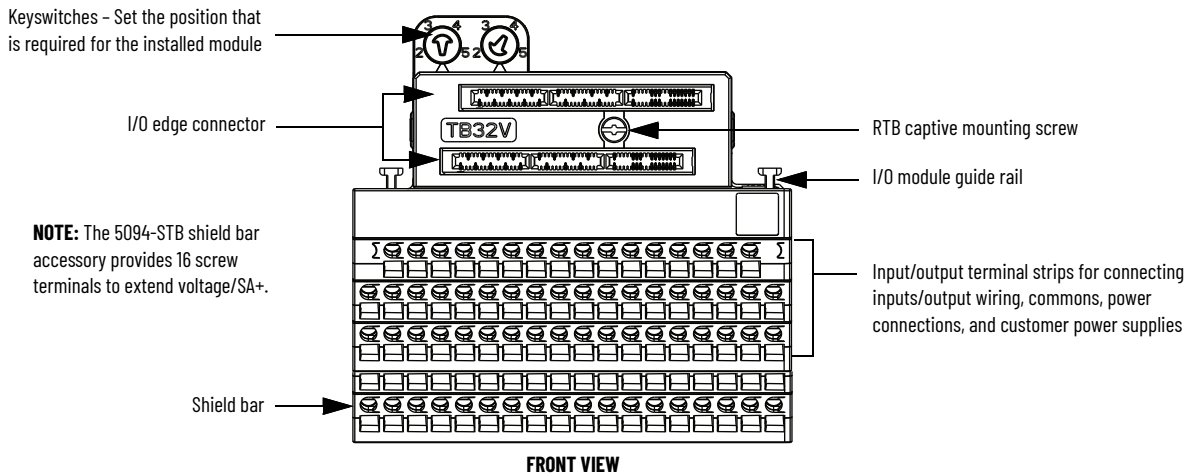


FRONT VIEW

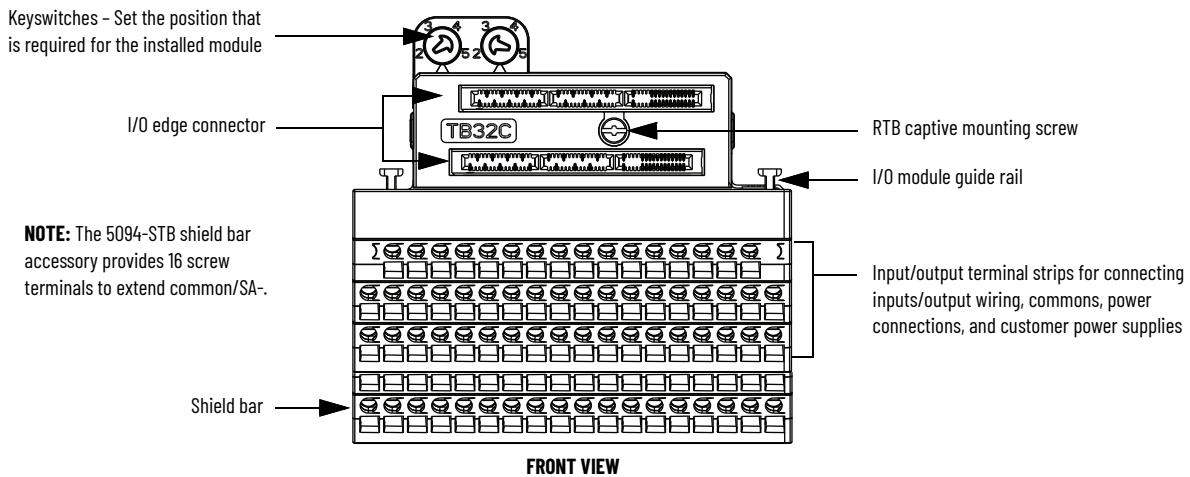
FLEX 5000 Relay Removable Terminal Blocks - 5094-RTB3W, 5094-RTB3WS, 5094-RTB3WXT, 5094-RTB3WSXT



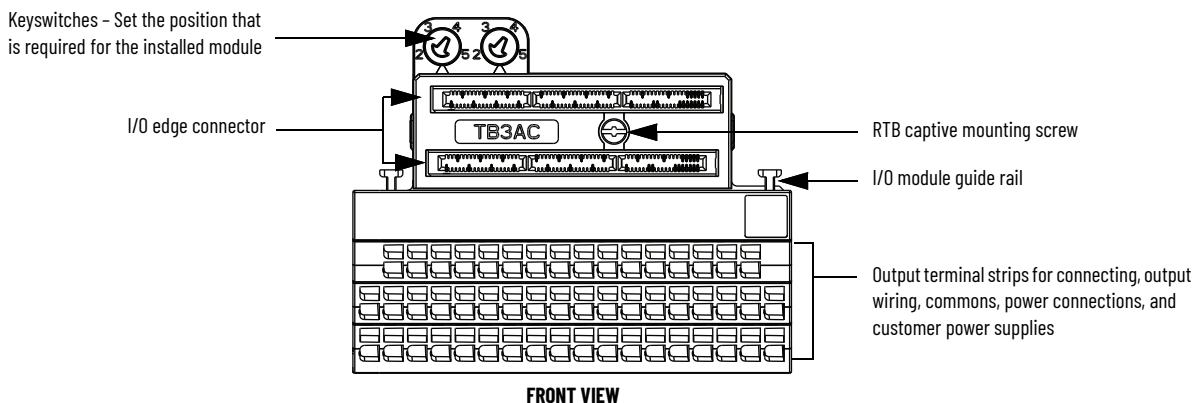
FLEX 5000 32-point Input Removable Terminal Blocks - 5094-RTB32V, 5094-RTB32VS, 5094-RTB32VXT, 5094-RTB32VSXT



FLEX 5000 32-point Output Removable Terminal Blocks - 5094-RTB32C, 5094-RTB32CS, 5094-RTB32CXT, 5094-RTB32CSXT



FLEX 5000 AC Removable Terminal Blocks - 5094-RTB3AC, 5094-RTB3ACS, 5094-RTB3ACXT, 5094-RTB3ACSXT



Before You Begin

Before you install the terminal base assembly, you must at least install a FLEX 5000 EtherNet/IP™ adapter and backplane end cap. For more information on how to install a FLEX 5000 I/O family, see FLEX 5000 EtherNet/IP Adapters Installation Instructions, publication [5094-IN001](#).

You can install the module next to any FLEX 5000 I/O module.

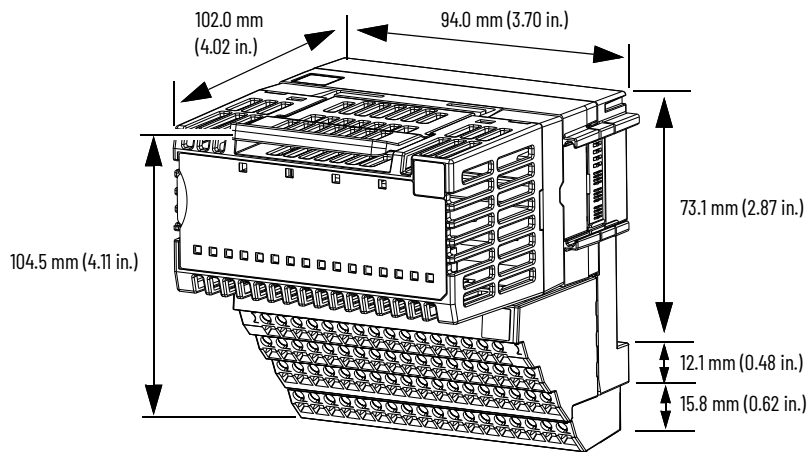
Required Components

To install the module, you need the physical components that are listed in the following table:

Components Needed for FLEX 5000 Terminal Base Assembly Installation

Component	Description
DIN rail	Allen-Bradley® 199-DR1; 46277-3; EN 50022 - 35 x 7.5 mm (1.38 x 0.30 in.)
Mounting base	IMPORTANT: You must order mounting bases (MBs), and removable terminal blocks (RTBs) separately. TBs, MBs, and RTBs do not ship with FLEX 5000 I/O modules. MB type depends on your system requirements. See FLEX 5000 Module Specifications Technical Data, publication 5094-TD001 for system requirements.
Removable terminal block	RTB type depends on your system requirements. See FLEX 5000 Module Specifications Technical Data, publication 5094-TD001 for system requirements.
Shield bar	The 5094-STB shield bar accessory is recommended for all analog modules and high-speed counter modules that use the following terminal base assemblies: <ul style="list-style-type: none"> • 5094-TB3, 5094-TB3S, 5094-TB3XT, and 5094-TB3SXT • 5094-TB3T, 5094-TB3TS, 5094-TB3TXT, and 5094-TB3TSXT • 5094-TB3I, 5094-TB3IS, 5094-TB3IXT, and 5094-TB3ISXT • 5094-TB32V, 5094-TB32VS, 5094-TB32VXT, and 5094-TB32VSXT • 5094-TB32C, 5094-TB32CS, 5094-TB32CXT, and 5094-TB32CSXT • 5094-TB3IT, 5094-TB3ITS, 5094-TB3ITXT, and 5094-TB3ITSXT
SA power jumpers	The 5094-SAJMPR power jumper accessory is required to daisy chain SA power in cascaded terminal bases.
Tools	The following tools are needed: <ul style="list-style-type: none"> • Screwdriver such as the 1492-N90 terminal block screwdriver with hardened 3 mm diameter blade • Wire stripper • Wires For more information on available wire sizes and wire insulation-stripping length, see Terminal Base Assembly Specifications on page 17 .

Dimensions (with Module and Shield Bar Installed)



Ground Considerations

You must ground DIN rails according to the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).



ATTENTION: This product is grounded through the DIN rail to chassis ground. Use zinc-plated chromate-passivated steel DIN rail to 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. Refer to Industrial Automation Wiring and Grounding Guidelines, Rockwell Automation publication [1770-4.1](#) for more information.

System Power Considerations



ATTENTION: Power to this equipment and all connected I/O must be supplied from a source compliant with the following:
Isolated from Mains power via an approved Isolating Transformer constructed with Basic Insulation

FLEX 5000 EtherNet/IP adapters provide power to a FLEX 5000 I/O modules via a Power RTB that is connected to an external power supply and installed on the adapter.

The Power RTB provides module power to the system. Module power refers to system-side power that is used to operate the FLEX 5000 I/O family. Module power is provided through the Power RTB and passed across the module power bus.

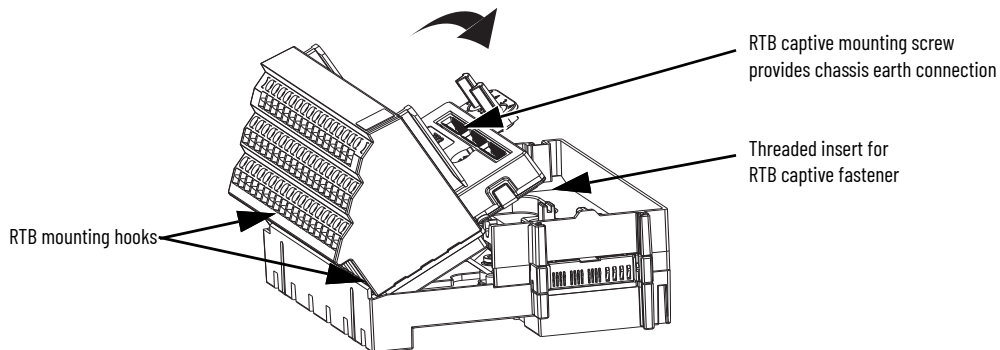
- If you are using DC voltage for SA power, you must limit the SA field-side power source to **10 A, max, at 18...32V DC**.
- If you are using AC voltage for SA power, you must limit the SA field-side power source to **10 A, max, at 120...240V AC**.
- Confirm that the external module power supply is adequately sized for the total module power bus current draw in the system. For example, if the total module power current draw, including current inrush requirements, is 5 A, you can use a module power supply that is limited to 5 A.
- You must use SELV-listed power supplies for module power and SA power if there are functional safety modules that are connected to the FLEX 5000 I/O family.
- Not all power supplies are certified for use in all applications, for example, nonhazardous and hazardous environments.

IMPORTANT We recommend that you use separate external power supplies for the adapter and the adjacent terminal base. This practice can prevent unintended consequences that can result if you use one supply.

- For more information, see the publications that are listed in [Additional Resources on page 19](#).

Assemble the Removable Terminal Block and the Mounting Base

1. Insert the mounting hooks of the RTB in the holes inside the bottom of the MB.
2. Pivot the RTB towards the MB until the RTB mates with the outline on the MB.
3. Use a screwdriver to turn the RTB captive mounting screw clockwise securely to the threaded insert on the MB. Tightening torque should be 0.55...0.8 N•m (4.87...7.08 lb•in).



WARNING: When assembling the removable terminal blocks and the mounting bases, do not handle the mounting base by the connectors on either side. Handling the mounting base by the connectors could damage the backplane connection.

IMPORTANT Removable terminal blocks have I/O module-specific keying. You must make sure that you select the correct RTB for each of your I/O module.

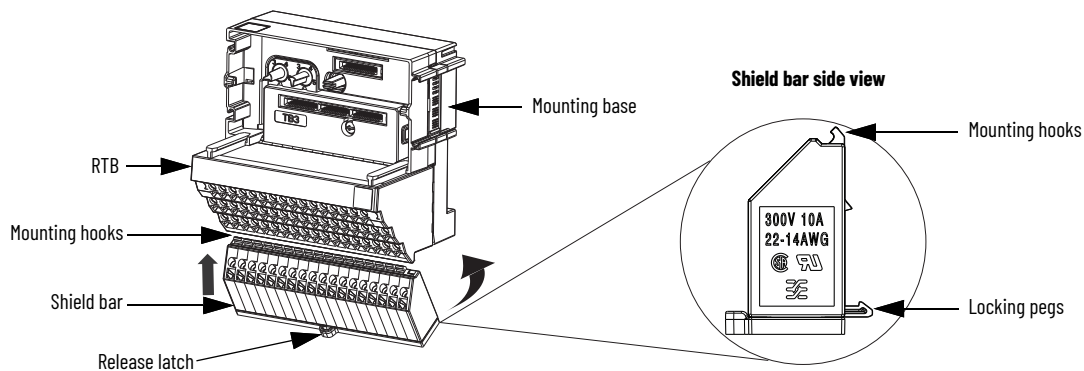
Install the Shield Bar

A shield bar is recommended for all analog modules and high-speed counter modules. The 5094-STB screw-type shield bars are sold separately in packs of five (5094-STB-QTY5).

Before you mount your terminal base assembly to the DIN rail, install the shield bar to the bottom row of terminals for the following RTBs:

- 5094-RTB3, 5094-RTB3S, 5094-RTB3XT, and 5094-RTB3SXT
- 5094-RTB3T, 5094-RTB3TS, 5094-RTB3TXT, and 5094-RTB3TSXT
- 5094-RTB3I, 5094-RTB3IS, 5094-RTB3IXT, and 5094-RTB3ISXT
- 5094-RTB32V, 5094-RTB32VS, 5094-RTB32VXT, and 5094-RTB32VSXT
- 5094-RTB32C, 5094-RTB32CS, 5094-RTB32CXT, and 5094-RTB32CSXT
- 5094-RTB3IT, 5094-RTB3ITS, 5094-RTB3ITXT, 5094-RTB3ITSXT

1. Insert the mounting hooks of the shield bar into the holes under the last row of terminals on the RTB.

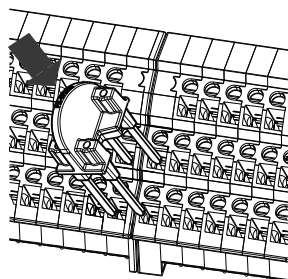


2. To align the locking pegs with the holes on the mounting base, pivot the shield bar towards the back of the RTB.
3. Press the shield bar up to the TB assembly until they snap together.

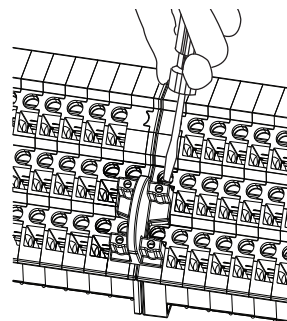
Install Optional SA Power Jumpers on Terminal Bases

To daisy chain screw-type terminal bases you can use the 5094-SAJMPR SA power jumper accessory, sold separately in packs of 10 (5094-SAJMPR-QTY10). You cannot use these jumpers on spring-type terminal bases. Install the SA power jumpers straddling two terminal bases as shown below and tighten the screws to the same torque as you would for wires.

Align the jumper pins with the four terminals that you are using to daisy chain the terminal bases.



Press the jumper evenly into the terminals and torque the screws to 0.4 N·m (3.5 lb·in).



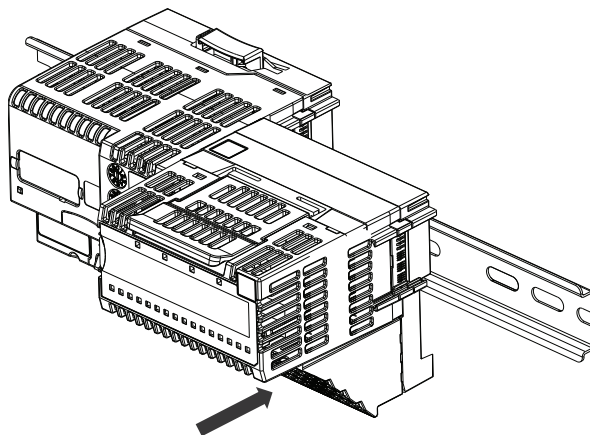
Mount the Terminal Base on a DIN Rail

You can use an Allen-Bradley 199-DR1; 46277-3; EN 50022 - 35 x 7.5 mm (1.38 x 0.30 in.) DIN rail with a FLEX 5000 I/O family.



ATTENTION: During mounting of all devices, be sure that all debris (such as metal chips or wire strands) is kept from falling into the module. Debris that falls into the module could cause damage upon application of power.

1. Remove the end cap from the connector of the unit to which you are connecting this terminal base unit.
2. Make sure the pins of the system connector on the unit that you are mounting are straight and in line so that the system connector on the adjacent unit mate correctly.
3. Align the interlocking guides of the terminal base assembly to the adjacent module and push the terminal base towards the DIN rail. The terminal base clicks onto the DIN rail when it is securely mounted.



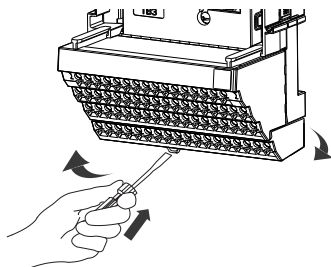
WARNING: If you insert or remove the module while backplane power or field power is on, an electric arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding. The RTB and TB modules do not support "Removal and Insertion Under Power" (RIUP) capability. Do not connect or disconnect the RTB or TB module while power is applied. Be sure power is removed before proceeding.

Remove or Replace Optional SA Power Jumpers from Terminal Bases

1. Unscrew terminal screws for the SA power jumper, and then lift the jumper off the terminal base.
2. To replace a jumper, refer to [Install Optional SA Power Jumpers on Terminal Bases on page 11](#).

Remove or Replace Shield Bar from Terminal Base

1. Insert a small screwdriver into the shield bar release latch, and lift to dislodge the locking pegs.
2. Pivot the shield bar forward and unhook it from the RTB.



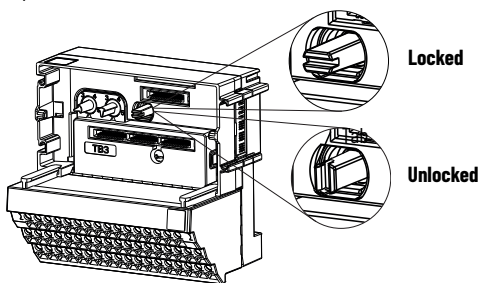
3. To replace a shield bar, refer to [Install the Shield Bar on page 10](#).

Remove or Replace RTB from Mounting Base

1. If there is an I/O module that is installed, remove the I/O module from the terminal base.
2. Switch off field power.
3. Use a screwdriver to turn the RTB connection mating screw counter clockwise.
4. Pull the RTB away from the mounting base.
5. To replace an RTB, refer to [Assemble the Removable Terminal Block and the Mounting Base on page 10](#)

Remove or Replace the Terminal Base

1. If there is an I/O module that is installed, remove the I/O module from the terminal base.
2. Turn the DIN rail actuator to the unlocked position.



3. Carefully pull the terminal base away from the DIN rail along the interlocking system connectors of the adjacent terminal base assembly.

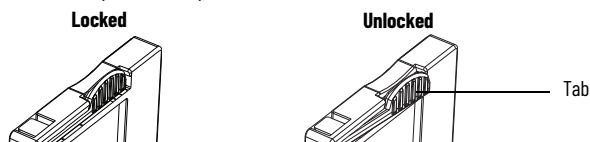
Install the End Cap

An end cap ships with the adapter.

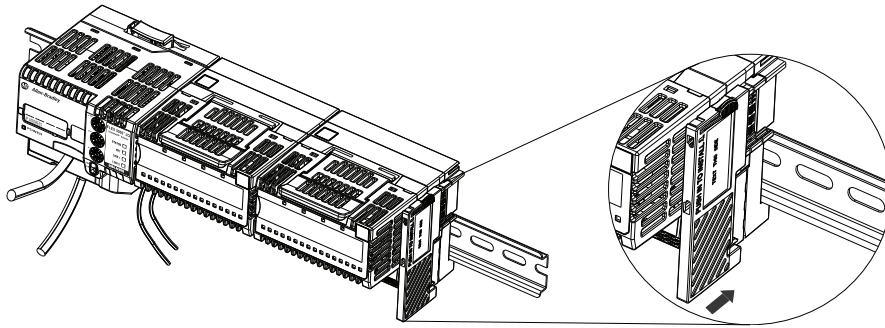
You must install an end cap on the right side of the last connected terminal base. The end cap covers the exposed interconnections on the adapter or on the last connected terminal base. If you do not install the end cap before powering the system, equipment damage or injury from electric shock can result.

Once you have installed all your modules, install the end cap on the last connected terminal base.

1. Make sure that the end cap is unlocked.
If the end cap is locked, pull the tab until it clicks.



- Align the end cap with interlocking system connector on the last connected terminal base.



- Push the end cap towards the DIN rail
- Press the Locking tab until it clicks.

Wire the Terminal Base

The RTB of the terminal base assembly is wired according to the installed I/O module requirements. For more wiring details, see each individual I/O module.



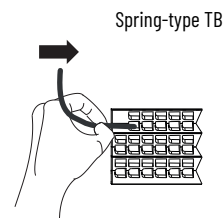
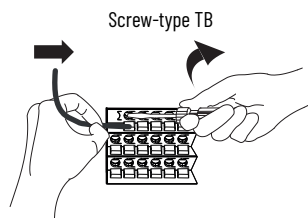
WARNING: If you connect or disconnect wiring while the field-side power is on, an electric arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

- Confirm that all sources of power to the module and terminal base are turned off.
- Strip insulation from the wires that you connect to the terminal base.

TB Type	Action
Screw	0.34...2.5 mm ² (22...14 AWG) = Strip 12 mm ± 1 mm (0.47 in ± 0.04 in) of insulation from the wires
Spring	0.34...1.3 mm ² (22...16 AWG) = Strip 10 mm ± 1 mm (0.39 in ± 0.04 in) of insulation from the wires 2.5 mm ² (14 AWG) = Strip 15 mm ± 1 mm (0.59 in ± 0.04 in) of insulation from the wires

- Connect the wires to the terminal base.

TB Type	Action
Screw	1. Insert the wire into the terminal. 2. Turn the screwdriver to close the terminal on the wire. Torque the screw to 0.4 N•m (3.5 lb•in).
Spring	Push the wire into the terminal. If the wire is too thin, crimp a wire ferrule on the wire and insert it.



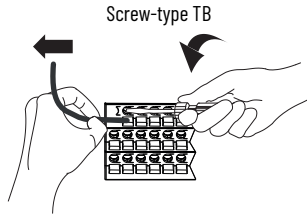
- Connect I/O module wiring to terminals 0...15, 16...31, and 32...47 as indicated in individual I/O module installation instructions.
- Connect +V DC power to terminal SA+/-.
- Connect V DC common to terminal SA+/-.
- If daisy chaining +V DC power to the next terminal base, connect a jumper from terminal SA+ on this base unit to terminal SA+ on the next base unit. Alternately, you can daisy chain SA+/- and SA+/- on screw-type terminal bases using an SA power jumper accessory.

Disconnect Wires from the Terminal Base

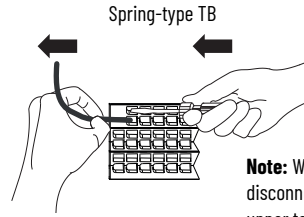


WARNING: If you connect or disconnect wiring while power is applied, an electric arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

Disconnect wires from the terminal base.



Screw-type TB



Spring-type TB

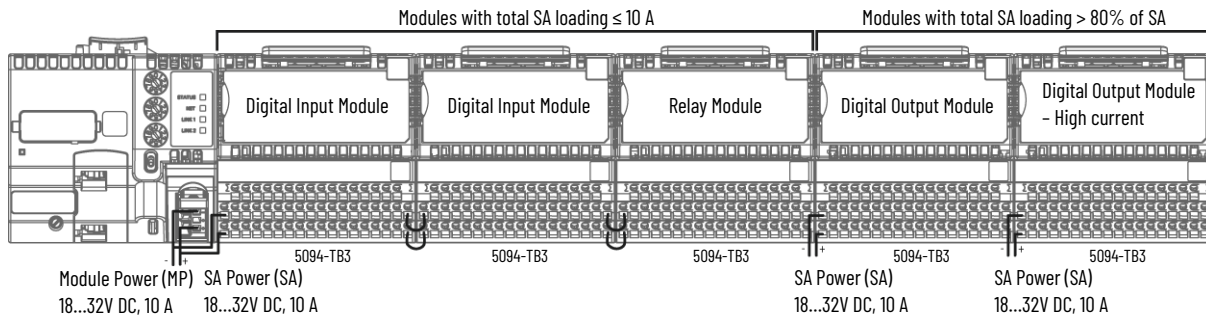
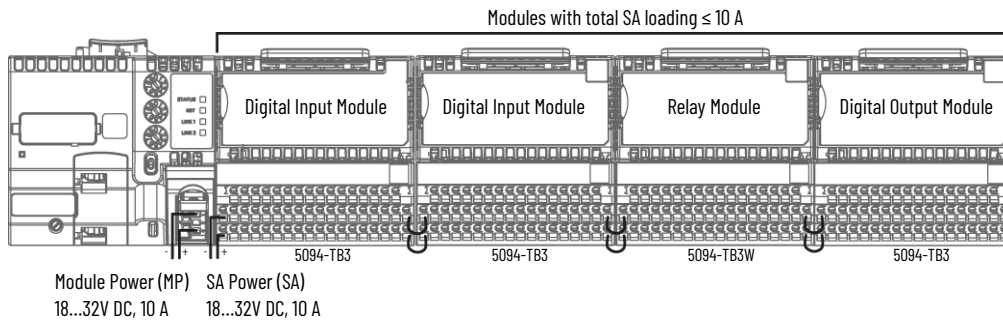
Note: When you insert a screwdriver to disconnect wires, follow the entry angle on the upper terminal of a spring-type RTB.

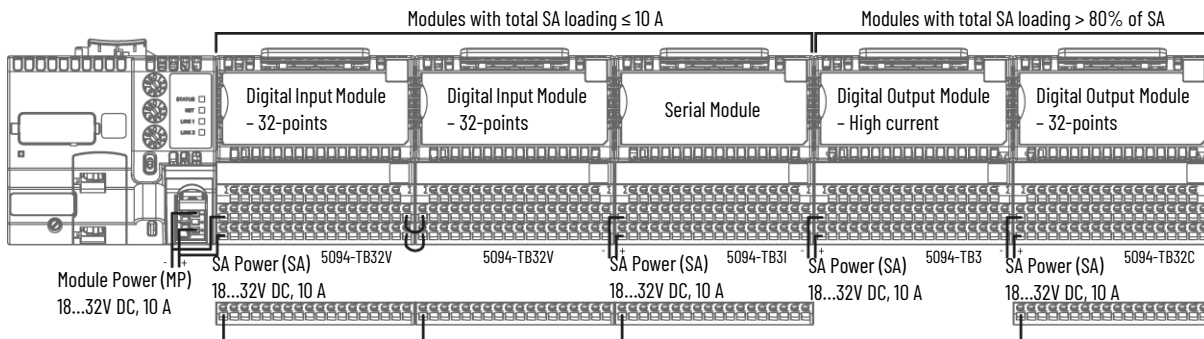
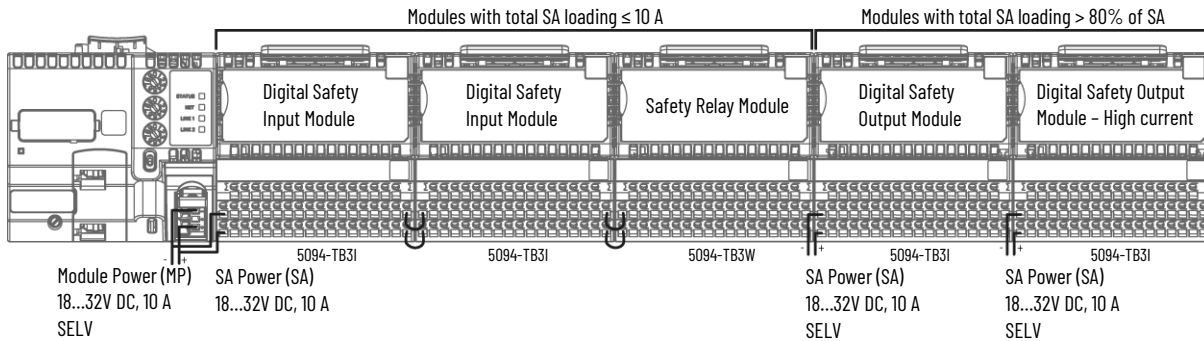
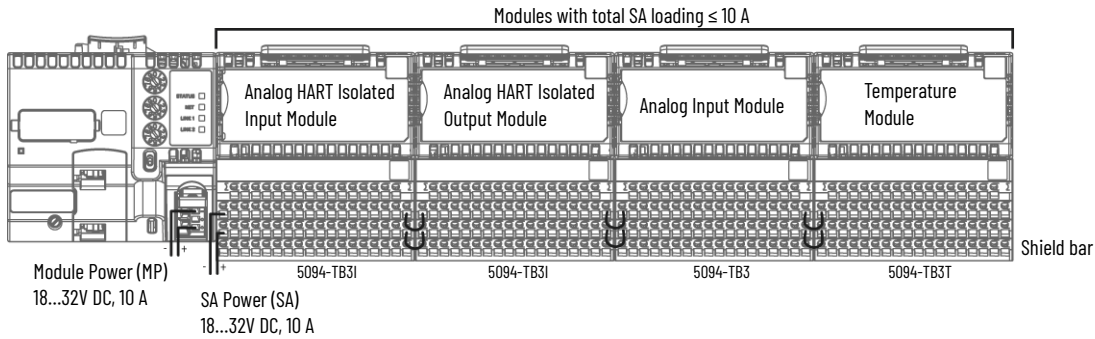
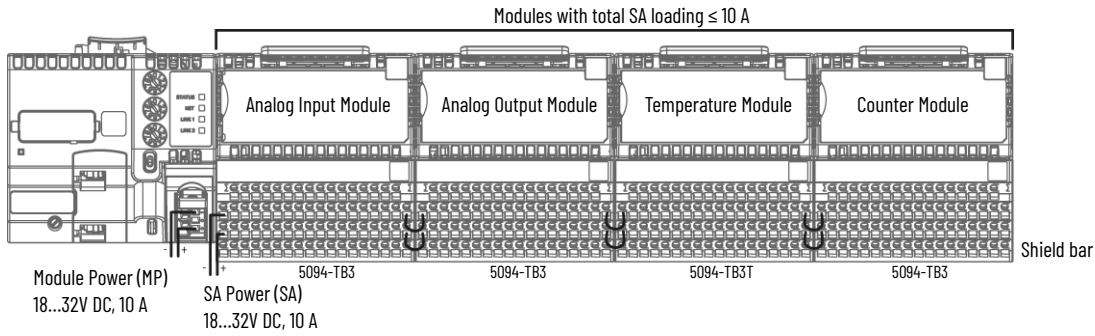
TB Type	Action
Screw	<ol style="list-style-type: none"> 1. Turn the screwdriver counter-clockwise to open the terminal. 2. Remove the wire.
Spring	<ol style="list-style-type: none"> 1. Insert and hold a screwdriver in the slot above the terminal. 2. Remove the wire. 3. Pull out the screwdriver.

Typical Wiring Guidelines

The following are examples of typical terminal base wiring scenarios for FLEX 5000 I/O modules.

Wiring Guidelines





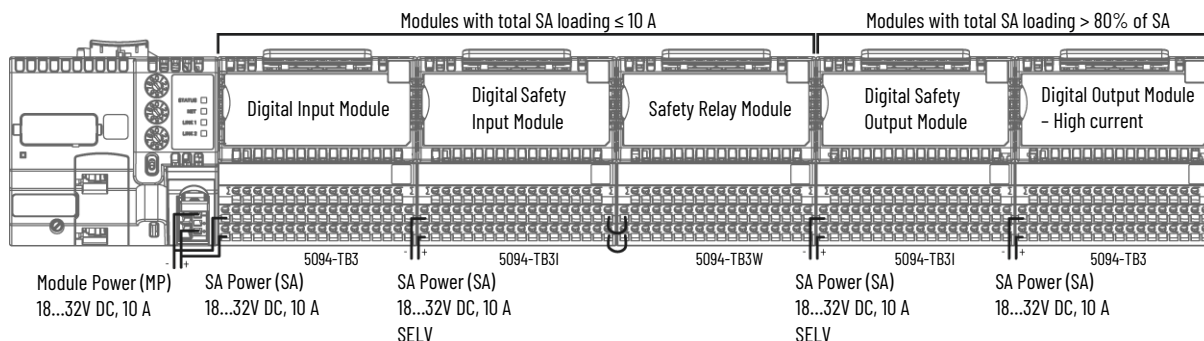
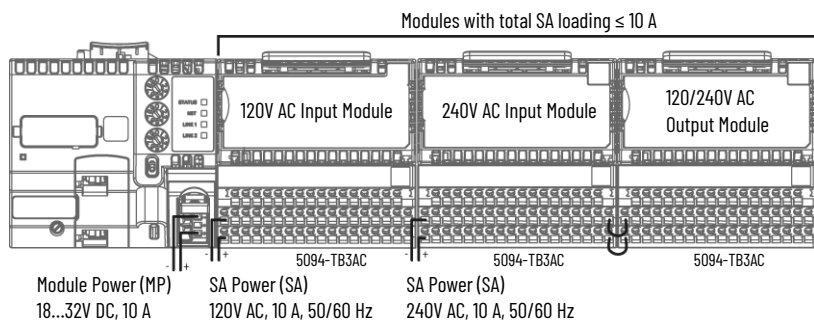
Wire optional shield bar:

- To extend SA+ terminals, one per channel for 2-wire sensors, or
- To extend SA- terminals for 3-wire sensors

Shield bar to wire cable shields

Wire optional shield bar:

- To extend SA- terminals, one per channel for 2-wire actuators



Wiring Connections

The following figures show the wiring connections for the RTB of the terminal base assemblies.

Wiring Connections for 5094-TB3, 5094-TB3S, 5094-TB3XT, and 5094-TB3SXT

Terminal base with 5094-STB shield bar accessory

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
-	Common															-	
+	Voltage															+	
Shield bar accessory	----- Shield Bar -----																

NOTE: The 5094-STB shield bar accessory is recommended to wire the shields for all analog input, analog output, and high speed signals in a 5094 terminal base assembly.

Wiring Connections for 5094-TB3T, 5094-TB3TS, 5094-TB3I, 5094-TB3IT, 5094-TB3ITS, 5094-TB3ITXT, 5094-TB3ITSXT, 5094-TB3IS, 5094-TB3IXT, 5094-TB3TSXT, 5094-TB3IXT, and 5094-TB3ISXT

Terminal base with 5094-STB shield bar accessory

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
-	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	-
+	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	+
Shield bar accessory	----- Shield Bar -----																

NOTE: The 5094-STB shield bar accessory is recommended to wire the shields for all analog input, analog output, and high speed signals in a 5094 terminal base assembly.

Wiring Connections for 5094-TB3W, 5094-TB3WS, 5094-TB3WXT, and 5094-TB3WSXT

		1	2		5	6		9	10		13	14	
-													
+		33	34		37	38		41	42		45	46	

Wiring Connections for 5094-TB32V, 5094-TB32VS, 5094-TB32VXT, and 5094-TB32VSXT

Terminal base with 5094-STB shield bar accessory

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
-	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	-
+	Voltage															+	
Shield bar accessory	+ ----- Voltage ----- +																

NOTE: The 5094-STB shield bar accessory provides 16 screw terminals to extend voltage/SA+.

Wiring Connections for 5094-TB32C, 5094-TB32CS, 5094-TB32CXT, and 5094-TB32CSXT

Terminal base with 5094-STB shield bar accessory

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
-	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	-
+	Common															+	

Shield bar accessory

-	Common															-
---	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

NOTE: The 5094-STB shield bar accessory provides 16 screw terminals to extend common/SA-

Wiring Connections for 5094-TB3AC, 5094-TB3ACS, 5094-TB3ACXT, and 5094-TB3ACSXT

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
-	AC Neutral															-	
+	AC Line															+	

Power the Modules

After you install all FLEX 5000 I/O modules, you can turn on power to the FLEX 5000 EtherNet/IP adapter and, if used, field-side power to the terminal bases. For more information, see [System Power Considerations on page 9](#).

Terminal Base Assembly Specifications

The following table lists a subset of the terminal base assembly specifications. For a complete list of specifications, see the FLEX 5000 Module Specifications Technical Data, publication [5094-TD001](#).

FLEX 5000 Terminal Base Assemblies General Specifications

Attribute	Value
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)	-40 °C ≤ Ta ≤ +70 °C (-40 °F ≤ Ta ≤ +158 °F)
Temperature, surrounding air, max	70 °C (158 °F)
Enclosure type rating	None (open-style)
Corrosion resistance classification	ISA S71.04 G3 - For XT terminal bases only
Isolation voltage	Dependent upon installed I/O module - See individual installation instructions for your specific I/O module.
Insulation-stripping length	Screw: 0.34...2.5 mm ² (22...14 AWG) = 12 mm ± 1 mm (0.47 in. ± 0.04 in.) Spring: 0.34...1.3 mm ² (22...16 AWG) = 10 mm ± 1 mm (0.39 in. ± 0.04 in.) 2.5 mm ² (14 AWG) = 15 mm ± 1 mm (0.59 in. ± 0.04 in.)
Wire size	0.34...2.5 mm ² (22...14 AWG) solid or stranded copper wire rated at 105 °C (221 °F), or greater, 1.2 mm (3/64 in.) insulation max
Wiring category	Established by installed modules.
Screw RTB torque specifications	0.4 N•m (3.5 lb•in)
North American temp code	T4
UKEX/ATEX temp code	T4
IECEX temp code	T4

FLEX 5000 Mounting Base Specifications

Attribute	5094-MB, 5094-MBXT
Backplane Power (BP), max	100 mA @ 15V DC
Backplane Power (Vcc), max	15 mA @ 3.3V

FLEX 5000 Removable Terminal Block Specifications

Attribute	5094-RTB3, 5094-RTB3S, 5094-RTB3XT, 5094-RTB3SXT	5094-RTB3I, 5094-RTB3IS, 5094-RTB3IXT, 5094-RTB3ISXT	5094-RTB32V, 5094-RTB32VS, 5094-RTB32VXT, 5094-RTB32VSXT	5094-RTB32C, 5094-RTB32CS, 5094-RTB32CXT, 5094-RTB32CSXT	5094-RTB3IT, 5094-RTB3ITS, 5094-RTB3ITXT, 5094-RTB3ITSXT, 5094-RTB3T, 5094-RTB3TS, 5094-RTB3TXT, 5094-RTB3TSXT	5094-RTB3W, 5094-RTB3WS, 5094-RTB3WXT, 5094-RTB3WSXT	5094-RTB3AC, 5094-RTB3ACS, 5094-RTB3ACXT, 5094- RTB3ACSXT
Sensor Actuator Power (SA), max	10 A @ 18...32V DC						10 A @ 240V AC, 50/60 Hz
Input/output ratings (IN/OUT), max	2 A @ 32V DC				—	—	2 A @ 240V AC, 50/60 Hz
Input ratings (IN), max	—				100 mA @ 10V DC	—	—
Output ratings (OUT), max	—				—	2 A @ 125V DC 2 A @ 240V AC, 50/60 Hz	—

FLEX 5000 Terminal Base Assembly Specifications

Attribute	5094-TB3, 5094-TB3S, 5094-TB3XT, 5094-TB3SXT	5094-TB3I, 5094-TB3IS, 5094-TB3IXT, 5094-TB3ISXT	5094-TB32V, 5094-TB32VS, 5094-TB32VXT, 5094-TB32VSXT	5094-TB32C, 5094-TB32CS, 5094-TB32CXT, 5094-TB32CSXT	5094-TB3IT, 5094-TB3ITS, 5094-TB3ITXT, 5094-TB3ITSXT, 5094-TB3T, 5094-TB3TS, 5094-TB3TXT, 5094-TB3TSXT	5094-TB3W, 5094-TB3WS, 5094-TB3WXT, 5094-TB3WSXT	5094-TB3AC, 5094-TB3ACS, 5094-TB3ACXT, 5094-TB3ACSXT
Sensor Actuator Power (SA), max	10 A @ 18...32V DC						10 A @ 240V AC, 50/60 Hz
Input/output ratings (IN/OUT), max	2 A @ 32V DC				—	—	2 A @ 240V AC, 50/60 Hz
Input ratings (IN), max	—				100 mA @ 10V DC	—	—
Output ratings (OUT), max	—				—	2 A @ 125V DC 2 A @ 240V AC, 50/60 Hz	—

Additional Resources

For more information on the products that are described in this publication, use these resources.

Resource	Description
FLEX 5000 Module Specifications Technical Data, publication 5094-TD001	Provides specifications for FLEX 5000 I/O module, adapters, and terminal base assemblies.
FLEX 5000 Digital 16-point Sinking Input Modules Installation Instructions, publication 5094-IN003	Provides information on how to install FLEX 5000 digital input modules.
FLEX 5000 Digital 16-point Sourcing Output Modules Installation Instructions, publication 5094-IN004	Provides information on how to install FLEX 5000 digital output modules.
FLEX 5000 Digital 8-point Isolated Relay Output Modules Installation Instructions, publication 5094-IN005	Provides information on how to install FLEX 5000 digital relay output modules.
FLEX 5000 Analog 8-channel Current/Voltage Input Modules Installation Instructions, publication 5094-IN006	Provides information on how to install FLEX 5000 analog input modules.
FLEX 5000 Analog 8-channel Current/Voltage Output Modules Installation Instructions, publication 5094-IN007	Provides information on how to install FLEX 5000 analog output modules.
FLEX 5000 Analog 8-channel Current/Voltage/RTD/Thermocouple Input Modules Installation Instructions, publication 5094-IN008	Provides information on how to install FLEX 5000 analog RTD/Thermocouple input modules.
FLEX 5000 High-speed Counter I/O Modules Installation Instructions, publication 5094-IN009	Provides information on how to install FLEX 5000 high-speed counter modules.
FLEX 5000 Digital 16-point Sinking Safety Input Modules Installation Instructions, publication 5094-IN012	Provides information on how to install FLEX 5000 digital safety input modules.
FLEX 5000 Digital 16-point Sourcing Safety Output Modules Installation Instructions, publication 5094-IN013	Provides information on how to install FLEX 5000 digital safety output modules.
FLEX 5000 Digital 4-point Isolated Relay Safety Output Modules Installation Instructions, publication 5094-IN015	Provides information on how to install FLEX 5000 digital safety relay output modules.
FLEX 5000 Analog 4-channel Isolated Current/Voltage/HART Safety Input Modules Installation Instructions, publication 5094-IN016	Provides information on how to install FLEX 5000 analog safety isolated HART input modules.
FLEX 5000 Analog 4-channel Isolated Current/Voltage/HART Safety Output Modules Installation Instructions, publication 5094-IN017	Provides information on how to install FLEX 5000 analog safety HART output modules.
FLEX 5000 Analog 8-channel RTD/Thermocouple Safety Input Modules Installation Instructions, publication 5094-IN018	Provides information on how to install FLEX 5000 safety thermocouple/RTD input modules.
FLEX 5000 2-channel Isolated-frequency Safety Input Modules Installation Instructions, publication 5094-IN019	Provides information on how to install FLEX 5000 safety isolated frequency input modules.
FLEX 5000 I/O Analog 8-channel Isolated Current/Voltage/HART Input Modules Installation Instructions, publication 5094-IN020	Provides information on how to install FLEX 5000 analog isolated current/voltage/HART input modules.
FLEX 5000 I/O Analog 8-channel Isolated Current/Voltage/HART Output Modules Installation Instructions, publication 5094-IN021	Provides information on how to install FLEX 5000 analog isolated current/voltage/HART output modules.
FLEX 5000 Digital 32-point Sinking Input Modules Installation Instructions, publication 5094-IN022	Provides information on how to install FLEX 5000 digital input modules.
FLEX 5000 Digital 8-point High Current Output Modules Installation Instructions, publication 5094-IN023	Provides information on how to install FLEX 5000 digital high-current output modules.
FLEX 5000 Digital 32-point Sourcing Output Modules Installation Instructions, publication 5094-IN024	Provides information on how to install FLEX 5000 digital output modules.
FLEX 5000 Digital 16-point 120V AC Input Modules Installation Instructions, publication 5094-IN025	Provides information on how to install FLEX 5000 digital 120V AC input modules.
FLEX 5000 Digital 8-point 240V AC Input Modules Installation Instructions, publication 5094-IN026	Provides information on how to install FLEX 5000 digital 240V AC input modules.
FLEX 5000 Digital 16-point 120V/240V AC Output Modules Installation Instructions, publication 5094-IN027	Provides information on how to install FLEX 5000 digital 120V/240V AC output modules.
FLEX 5000 Serial Modules Installation Instructions, publication 5094-IN028	Provides information on how to install FLEX 5000 digital serial modules.
FLEX 5000 Shield Bar Product Information, publication 5094-PC002	Provides specifications for the shield bar and jumper accessories.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at rok.auto/literature. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Rockwell Automation Support

Use these resources to access support information.

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Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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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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