

# Installation Instructions

Original Instructions



**Allen-Bradley**

by ROCKWELL AUTOMATION

## CIP Security Proxy

Catalog Numbers 1783-CSP

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The CIP Security™ Proxy is a standalone device that connects non-CIP Security-capable devices to industrial automation control systems (IACS) that use CIP Security. You use FactoryTalk® Policy Manager and FactoryTalk System Services--both custom options when you install FactoryTalk Services Platform--to configure and deploy CIP Security that includes the proxy.

The CIP Security Proxy is installed on a DIN rail and supports the following:

- Three ports that are used as follows:
  - Two ports that connect the proxy to Star, Device Level Ring (DLR), and Linear EtherNet/IP™ topologies. (Network ports)
  - One port that connects the proxy to one non-CIP Security-capable device. (Device port)
- Rotary switches to set the IP address
- Ring Supervisor capability in a DLR network



**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、稼働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. 사용자들은 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.

**DİKKAT:** 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, ayarlar, 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 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 vhodné 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 przeszkoleny personel zgodnie z obowiązującym kodeksem postępowania.

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

**OB!** 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. 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 onderhoudt. Gebruikers moeten zich vertrouwd maken met de installatie en de bedrijfsinstructies, 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.

## 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><b>WARNING:</b> <b>Explosion Hazard -</b></p> <ul style="list-style-type: none"> <li>• Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.</li> <li>• 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.</li> <li>• Substitution of components may impair suitability for Class I, Division 2.</li> <li>• If this product contains batteries, they must be changed only in an area that is known to be nonhazardous.</li> </ul> </div> </div>	<div style="display: flex; align-items: center;">  <div> <p><b>AVERTISSEMENT:</b> <b>Risque d'Explosion -</b></p> <ul style="list-style-type: none"> <li>• Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement.</li> <li>• 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.</li> <li>• La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2.</li> <li>• S'assurer que l'environnement est classé non dangereux avant de changer les piles.</li> </ul> </div> </div>


## European Hazardous Location Approval

- The following applies to products marked   II 3 G: Such modules:
- 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 EU Directive 2014/34/EU. See the EU Declaration of Conformity at <http://www.rockwellautomation.com/global/certification/overview.page> for details.
  - The type of protection for the 1783-CSP is <Ex ec IIC T4 Gc> according to EN 60079-7.
  - Comply to Standards <EN 60079-0:2012, EN 60079-15:2010>, reference certificate number <DEMKO 20 ATEX 2349X>.
  - 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 for the 1783-CSP is <Ex ec IIC T4 Gc> according to IEC 60079-7.
  - Comply to Standards <IEC 60079-0:2011, IEC 60079-15:2010>, reference IECEx certificate number <IECEx UL 20.0023X>.
  - May have catalog numbers followed by a "K" to indicate a conformal coating option.

## Special Conditions for Safe Use

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**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 (in accordance with EN/IEC 60079) 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.
  - 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.
  - Instructions in the user manual shall be observed.
  - 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.

## Environment and Enclosure

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**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
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## Electrical Safety Considerations

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**ATTENTION:** Power to this equipment and all connected I/O must be supplied from a source that is Class 2 approved to UL1310.

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## Prevent Electrostatic Discharge

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**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:

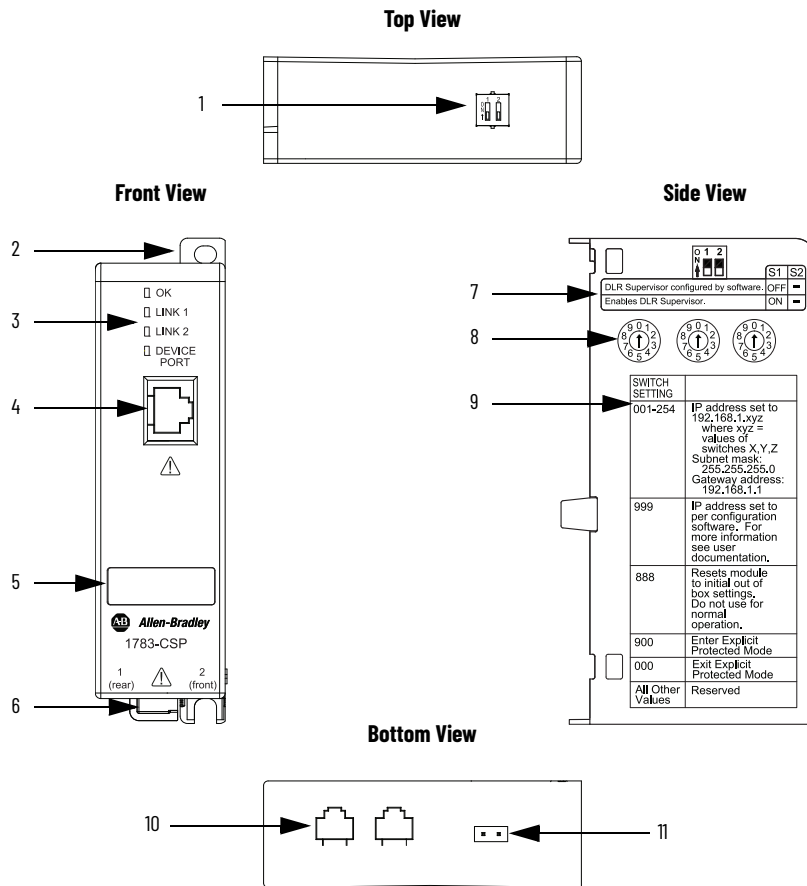
- Touch a grounded object to discharge potential static.
  - Wear an approved grounding wriststrap.
  - Do not touch connectors or pins on component boards.
  - Do not touch circuit components inside the equipment.
  - Use a static-safe workstation, if available.
  - Store the equipment in appropriate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

- This equipment is certified for use only within the surrounding air temperature range of -25...+70 °C (-13...+158 °F). The equipment must not be used outside of this range.
  - 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.
  - Use only a soft dry anti-static cloth to wipe down equipment. Do not use any cleaning agents.
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# 1783-CSP Proxy Components



Item	Description
1	DIP switches
2	DIN rail latch
3	Status Indicators
4	Device port
5	MAC ID label
6	DIN rail latch
7	DIP switch setting label
8	Rotary switches
9	Switch settings label
10	Network ports
	• Port 1 - rear
	• Port 2 - front
11	DC connector

## Software Requirements

To configure the proxy, you must have the following versions of software.

Software	Version
FactoryTalk Linx	Version 6.20 or later
FactoryTalk Services Platform	Version 6.20 or later To use the CIP Security Proxy in an IACS with CIP Security, you must install the following components as part of the FactoryTalk Services Platform installation: <ul style="list-style-type: none"> <li>FactoryTalk Policy Manager</li> <li>FactoryTalk System Services</li> </ul>
DHCP server	Rockwell Automation does not offer this software. Consequently, we do not list a software version to use.
BOOTP DHCP EtherNet/IP Commissioning Tool	Version 3.02.00 or later.

## Network Considerations Before You Begin

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- IMPORTANT** The proxy can connect to a network side and a device side.
- The network side is an EtherNet/IP network.
  - The device side is a point-to-point connection to a device that is non-CIP Security-capable.
- The considerations in the section apply only to connections made to the network side.
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On the network side, the proxy can connect to star, linear, or DLR EtherNet/IP network topologies. Depending on the network type on which the proxy operates, you must consider some factors before you install the proxy and connect it to the network.

### Star and Linear Network Considerations

When you use the proxy in a star or linear network, make sure that Ring Supervisor mode is disabled. If Ring Supervisor mode is enabled when the proxy resides on a linear or star network, there can be adverse impacts on network communication.

You can enable Ring Supervisor mode via DIP switch 1 or software, that is, FactoryTalk Linx or Logix Designer application. By default, the Ring Supervisor mode is disabled on the proxy. DIP switch 1 is in the Off position.

We **recommend** that you confirm DIP switch 1 is in the Off position before you install the proxy.

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- IMPORTANT** When DIP switch 1 is in the Off position and Ring Supervisor mode is disabled when the proxy powers up, you use software to enable Ring Supervisor mode. Make sure that the Ring Supervisor mode is not enabled via software during normal operation on a star or linear network.
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For more information on how to use the DIP switches, see [Set the DIP Switches on page 8](#).

### Device Level Ring (DLR) Network Considerations

When you use the proxy in a DLR network, consider whether the proxy will be a Ring Supervisor. By default, Ring Supervisor mode is disabled. If the device that is connected to the proxy is intended to be a Ring Supervisor, you can set the proxy to be the Ring Supervisor.

To change supervisor functionality, use one of the following methods:

- Move DIP switch 1 to the On position before you install the proxy.  
After the proxy powers up, it automatically operates as the supervisor on the DLR network.
- Leave DIP switch 1 in the Off position and install the proxy.  
After the proxy powers up, it operates as a non-supervisor on the DLR network.

For information about Ring Supervisor mode and supervisor-related parameters, see the EtherNet/IP Device Level Ring Application Technique, publication [ENET-AT007](#).

For more information on how to use the DIP switches, see [Set the DIP Switches on page 8](#).

## Set the Network Internet Protocol (IP) Address

The CIP Security Proxy ships DHCP-enabled and with the rotary switches on the side of the proxy set to 999. Out-of-the-box, the proxy does not have an IP address. The proxy requires an IP address to operate on an EtherNet/IP network.

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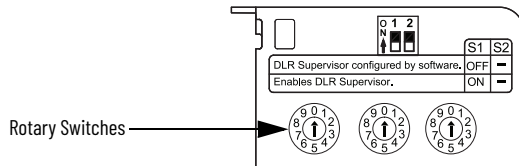
**IMPORTANT** Make sure that you assign a unique IP address to the proxy, that is, use an IP address that differs from all other devices on the EtherNet/IP network. If the proxy uses the same IP address as another device on the network, the result is a Duplicate IP address condition.

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If the network uses the 192.168.1.x format, we **recommend** that you use the rotary switches to set the last octet of network IP address. Valid numbers range from 002...254. When you use rotary switches to set the IP address, the address is static and remains the same on future power cycles.

To set the IP address, turn the switches to the appropriate numbers before you install the proxy. The leftmost switch represents the first digit in the octet, the middle switch represents the second digit, and the right-most switch represents the third digit.



At power-up, the proxy reads the rotary switches to determine if they are set to a valid number for the last octet of the IP address. If the settings are a valid number, the following conditions result:

- IP address = 192.168.1.xxx (where xxx represents the switch settings)
- Subnet mask = 255.255.255.0
- Gateway address = 162.168.1.1

**IMPORTANT:** Out of the box, the gateway address = 0.0.0.0. If you do not change the IP address via rotary switches, the gateway address remains 0.0.0.0

- The proxy does not have an assigned host name, nor does it use any Domain Name System.



**WARNING:** When you change switch settings while 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.

If the network does not use 192.168.1.x, do not change the switch positions before you install the proxy. After you install and power up the proxy, you can use the following to set the network IP address:

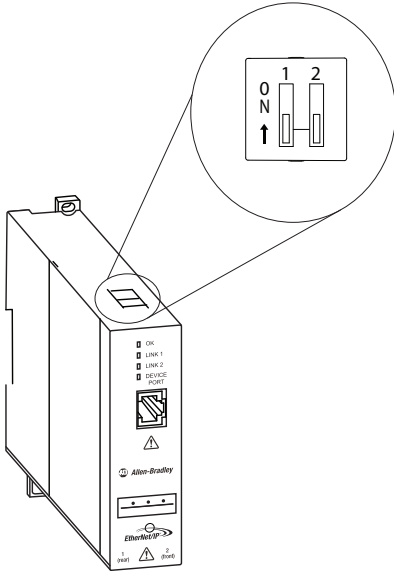
- DHCP server
- BOOTP DHCP EtherNet/IP Commissioning Tool - We recommend that you use version 3.02.00 or later.

For more information on how to use software to set the IP address, see the CIP Security Proxy User Manual, publication [1783-UM013](#).

## Set the DIP Switches

The proxy has DIP switches on the top of it. You can use switch 1 to enable DLR Ring Supervisor when the proxy is on a DLR network. The position of switch 2 does not affect DLR Supervisor configuration.

When a switch is pushed up, from the top view of the proxy, it is in the On position.



Out of the box, the switches are in the Off position. Set switch 1 to the appropriate position for your application, as described in the following table, before you install the proxy.

Switch 1	Switch 2	Power-up Behavior
Off	—	You can use software to enable the proxy as a DLR Supervisor and to configure DLR Supervisor-related parameters. However, the proxy does not function as a DLR Supervisor until you configure it to be one via software. <sup>(1)</sup>
On		The proxy is enabled to be a DLR Supervisor. You can configure remaining DLR Supervisor parameters, for example, supervisor precedence, via software. <sup>(1)</sup>

(1) You use FactoryTalk Linx software or an Add-On Profile in Logix Designer application to configure the parameters. For information about supervisor-related parameters, see the EtherNet/IP Device Level Ring Application Technique, publication [ENET-AT007](#).

To change operation, move the switches to the desired positions and then cycle power to the proxy. Switch changes only affect the proxy behavior after power is cycled to the proxy.

## Mount the Proxy

Install the proxy on a DIN rail or panel-mount the proxy.

---

**IMPORTANT** When mounting the proxy, allow a minimum clearance between product and adjacent equipment of 2.54 cm (1 in.) on all sides. The proxy is intended to be mounted only vertically. Do not mount horizontally.

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## Grounding Considerations

This product is intended to be mounted to a well-grounded mounting surface, such as a metal pane or DIN rail.

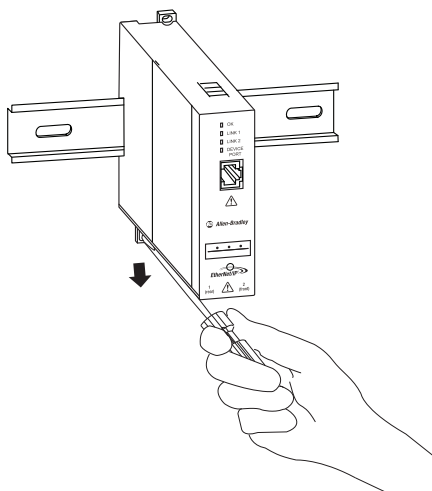


**ATTENTION:** This product is grounded through the DIN rail to chassis ground. Use zinc-plated chromate-passivated steel DIN rail to assure proper grounding. The use of other DIN rail materials (for example, aluminum or plastic) that can corrode, oxidize, or are poor conductors, can result in improper 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 the Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#), for additional information.

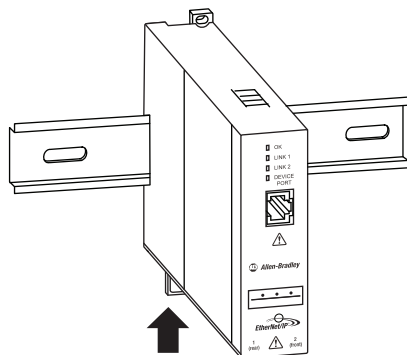
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## DIN Rail Mounting

1. Mount your DIN rail.
2. Use a screwdriver to open the latch at the bottom of the proxy.



3. While holding the latch open with the screwdriver, hook the proxy on the top of the DIN rail, and push downward until the proxy is against the DIN rail.
4. Remove the screwdriver and push the latch up to lock the proxy on the DIN rail.



## Panel Mounting

To panel mount a proxy, proceed as follows.

1. Use the proxy as a template and mark pilot holes on your panel.
2. Drill the pilot holes for M4 or #8 screws.

## Connect Power to the Proxy

Use the 2-pin DC connector to connect 24V DC power to the 1783-CSP Proxy at the bottom of the proxy.



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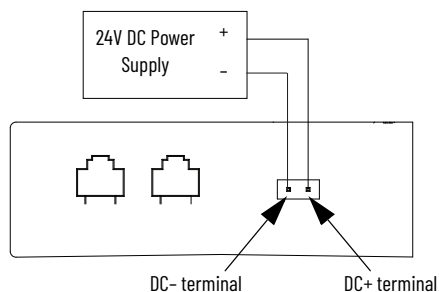
**WARNING: EXPLOSION HAZARD**

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.

For hazardous location applications, use the supplied Weidmuller 1317570000 power terminal block.

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1. Confirm that the external power supply is off.
2. Connect the - terminal on the external power supply to the DC- terminal on the DC connector on the proxy.
3. Connect the + terminal on the external power supply to the DC+ terminal on the DC connector on the proxy.



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**IMPORTANT** Leave the **external power supply off** until after the installation process is complete. The last installation task, that is, [Connect a Device to the Proxy](#) is described on [page 13](#).

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## Connect the Proxy to the CIP Security Architecture



### WARNING: EXPLOSION HAZARD

If you connect or disconnect the communications cable with power that is applied to this module or any device on the network, 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.

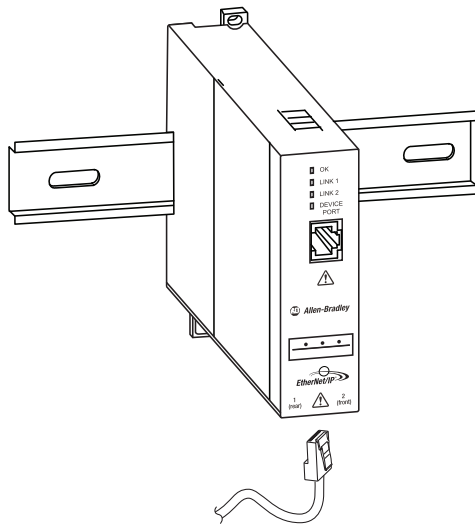
You use a Category 5e or Category 5 Ethernet cable with an RJ45 connector to connect the proxy to a CIP Security™ architecture. Connect the cables to the Ethernet ports on the bottom of the proxy. For more information about the Ethernet cables, see [Specifications on page 14](#).

**IMPORTANT** By default, the individual ports on the proxy auto-negotiate link speeds (10 Mbps, 100 Mbps, or 1 Gbps) and duplex setting (full or half). Before you connect the proxy to an EtherNet/IP network, make sure that the device to which the proxy is connected uses the same speed and duplex settings as the port that is used on the proxy. Failure to make the speed and duplex settings of directly connected devices match can result in higher error rates, or loss of network connectivity.

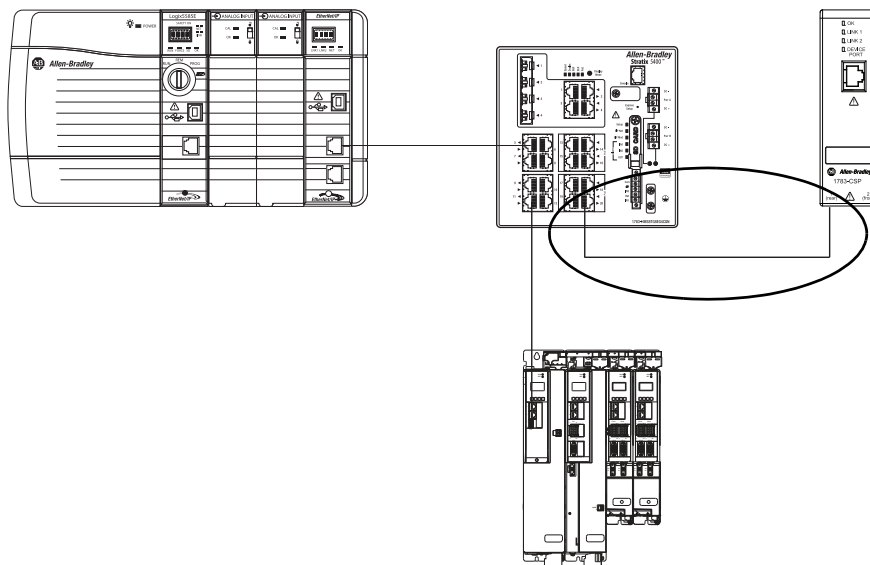
## Connect the Proxy to a Star Topology

Complete the following steps to connect the proxy to a star topology.

1. Connect the Ethernet cable to port 1 or port 2 on the bottom of the proxy.



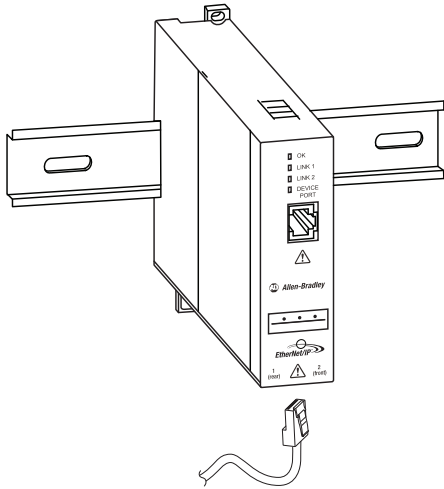
2. Connect the other end of the Ethernet cable to the CIP Security architecture.



## Connect the Proxy to a DLR or Linear Topology

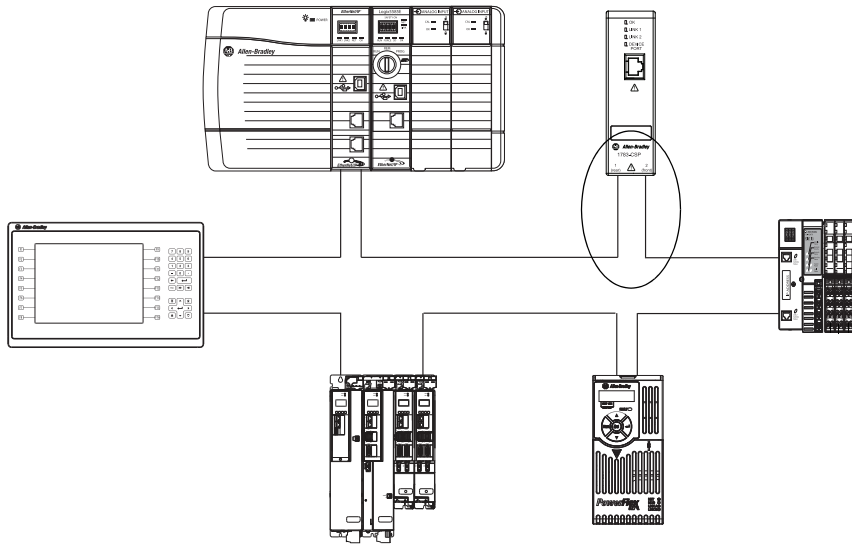
Complete the following steps to connect the proxy to a DLR or linear topology.

1. Connect the Ethernet cable to an Ethernet port that is on the bottom of the proxy.

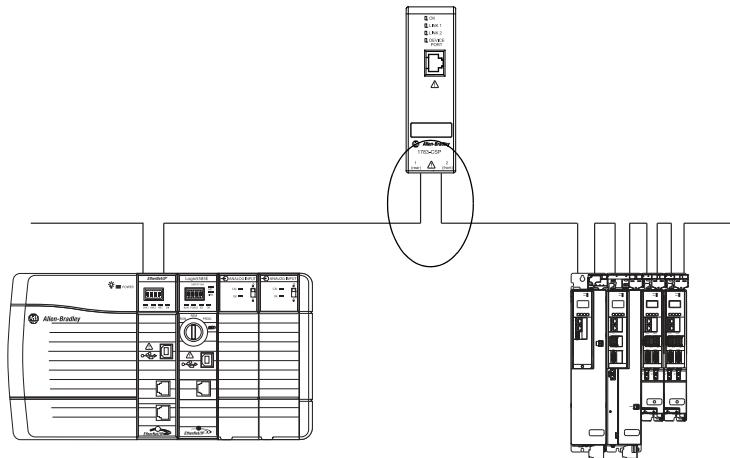


2. Connect the other end of the Ethernet cable to the appropriate device on the network.
3. Repeat the steps for the other Ethernet port on the bottom of the proxy.

### DLR Network



### Linear Network



## Connect a Device to the Proxy



### WARNING: EXPLOSION HAZARD

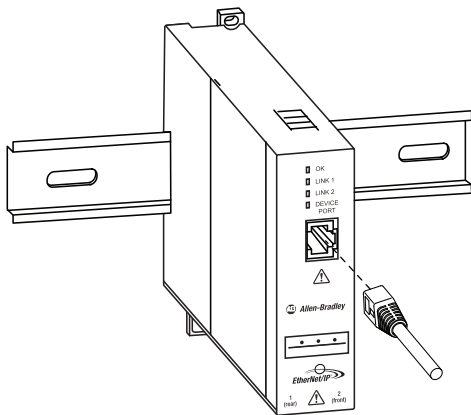
If you connect or disconnect the communications cable with power that is applied to this module or any device on the network, an electric arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

You use a Category 5e or Category 5 Ethernet cable with an RJ45 connector to connect the proxy to a non-CIP Security-capable device. For more information about the Ethernet cables, see [Specifications on page 14](#).

**IMPORTANT** By default, the individual ports on the proxy auto-negotiate link speeds (10 Mbps, 100 Mbps, or 1 Gbps) and duplex setting (full or half). Before you connect the proxy to an EtherNet/IP network, make sure that the device to which the proxy is connected uses the same speed and duplex settings as the port that is used on the proxy. Failure to make the speed and duplex settings of directly connected devices match can result in higher error rates, or loss of network connectivity.

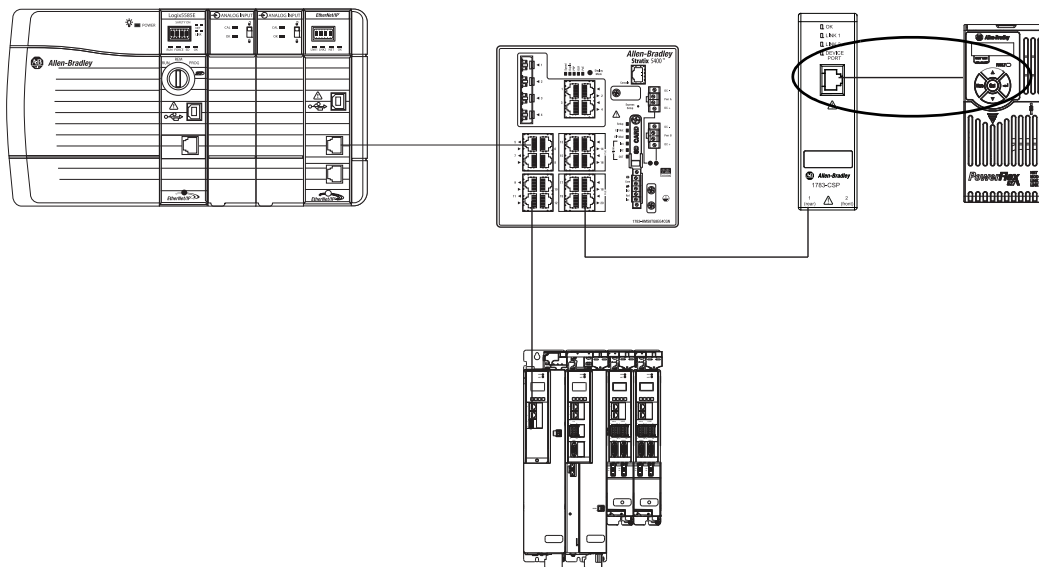
Complete the following steps to connect a device to the proxy.

1. Connect the Ethernet cable to the device port.



2. Connect the other end of the Ethernet cable to the non-CIP Security-capable device.

The following example shows a PowerFlex® 527 drive that is connected to a CIP Security Proxy.



## Power the Proxy

When the proxy is installed, connected to the CIP Security architecture, and the non-CIP Security-capable device is connected to the proxy, turn on the external power supply to power the proxy.

## Electronic Data Sheet (EDS) and Add-on Profile (AOP)

Once you install and power the proxy, you must install an EDS file in FactoryTalk Linx software to use the proxy in the software.

You are not required to use an AOP with the proxy. You can use the proxy in an IACS with CIP Security even if the proxy is not added to Logix Designer application project. However, you can add the proxy to the project for diagnostics and simple configuration purposes. If you want to use it in a project, you must first install an AOP in the application.

For more information on how to install an EDS file with FactoryTalk Linx software and install an AOP in Logix Designer application, see the CIP Security Proxy User Manual, publication [1783-UM013](#).

## Specifications

Attribute	1783-CSP
Power consumption max	4 W
Current consumption max	220 mA
DC power supply voltage rating	24V DC (18...32V DC)
Ethernet connections	<ul style="list-style-type: none"> <li>• RJ45 connector according to IEC 60603-7</li> <li>• 2 or 4 pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 24702</li> </ul>
Device connections	<ul style="list-style-type: none"> <li>• RJ45 connector according to IEC 60603-7</li> <li>• 2 or 4 pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 24702</li> </ul>
DC power connections	One 0.33...3.3 mm <sup>2</sup> (22...12 AWG) or two 0.33...1.3 mm <sup>2</sup> (22...16 AWG) solid or stranded copper wire(s) rated at 75 °C (167 °F) or greater, 1.2 mm (3/64 in.) insulation max
Torque, power connector	0.6...0.8 N•m (5...7 lb•in)
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)	-25 °C < Ta < + 70 °C (-13 °F < Ta < +158 °F)
Temperature, surrounding air	70 °C (158 °F)
Enclosure type rating	None (open-style)
North American temp code	T4
ATEX temp code	T4
IECEx temp code	T4

## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

<b>Resource</b>	<b>Description</b>
CIP Security Proxy User Manual, publication <a href="#">1783-UM013</a>	Describes how to use the CIP Security Proxy.
CIP Security with Rockwell Automation Products Application Technique, publication <a href="#">SECURE-AT001</a>	Describes CIP Security and how to implement it in an industrial automation control system with Rockwell Automation products.
Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>	Provides general guidelines for installing a Rockwell Automation industrial system.

# Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Knowledgebase</b>	Access Knowledgebase articles.	<a href="http://rok.auto/knowledgebase">rok.auto/knowledgebase</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

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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](http://rok.auto/pec).

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