

QuickStick 150 - Motor Modules

Catalog Numbers MMI-QS-S10E10, MMI-QS-S10E05, MMI-QS-S10E03



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。本機器が製造メカ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, 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 İlave 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 amaç dışında kullanılırsa, ekipman tarafından sağlanan koruma bozulabilir.

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

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

如果將設備用於非製造商指定的用途時, 可能會造成設備所提供的保護功能受損。

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

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

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

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

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

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

Obs! Läs detta dokument samt dokumentet, som står listat i avsnittet Övriga resurser, om installation, konfiguration och drift av denna utrustning innan du installerar, konfigurerar eller börjar använda eller utföra underhållsarbete på produkten. 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 bedringsinstructies, naast de vereisten van alle toepasselijke regels, wetten en normen.




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

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





Find Installation Information for Your Component Parts





For information on the installation of your component parts, see the QuickStick® 150 User Manual, publication [MMI-UM047](#).

Motor Module Installation	
	ATTENTION: Qualified Personnel Only qualified personnel familiar with linear motion equipment and associated machinery should plan or implement the installation, startup, and subsequent maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.
	ATTENTION: Product Safety Operation of this motor module must be for its intended use. Instructions for safe installation and operation of a motor module are in the user manual. You are responsible for the product safety of your completed machinery. An incorrectly applied or installed motor module can result in component damage or a reduction in product life.
	ATTENTION: Electrostatic Discharge This motor module contains electrostatic discharge (ESD) sensitive parts and assemblies. Static control precautions are required when installing, testing, servicing, or repairing this assembly. Component damage can result if ESD control procedures are not followed. If you are not familiar with static control procedures, reference Guarding Against Electrostatic Damage, publication 8000-4.5.2 or any other applicable ESD protection handbook.
	ATTENTION: Hazardous Voltage Reference the QuickStick 150 User Manual, publication MMI-UM047 for electrical connections and power supply to the motor module. Operate within the ratings specified on the Motor Module nameplate.

Motor Module Replacement	
	ATTENTION: Burn Hazard <ul style="list-style-type: none"> Do not touch hot surfaces such as motor face and bottom cover. Temperatures of the track motor module-stator covers can be higher than 60° C (140° F) during or after operation. After powering down the motor modules, allow them to cool down before touching or handling. MagneMotion QuickStick 150 modules can require 140 minutes to cool.
	ATTENTION: Verify Voltage Discharge <ul style="list-style-type: none"> Do not remove the cover or cables while the motor module is energized. This product contains stored energy devices. To avoid the hazard of electrical shock, verify that the voltage on the capacitors has been discharged before attempting to service, repair, or remove this unit. To avoid electric shock, do not open any QuickStick 150 component. Motors, controllers, and other components do not contain any user-serviceable parts. Reference the procedures in the QuickStick 150 User Manual, publication MMI-UM047. Do not attempt the procedures in this document unless you are qualified to do so and are familiar with solid-state control equipment and the safety procedures in the Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.
	ATTENTION: Strong Magnetic Fields <ul style="list-style-type: none"> The movers use strong magnets and motor modules, under power, to generate strong magnetic fields. The magnetic fields can disrupt the functionality of automatic-implantable cardioverter defibrillators (AICD). People with cardiac pacemakers must not work near the MagneMotion QuickStick 150 system. The strong magnets of the mover can attract metal objects that are in its proximity. When you handle and install, maintain a safe distance between the mover and ferrous metal mounting surfaces or structures. Maintenance personnel must avoid the use of metallic tools and secure items such as badge clips and other personnel effect that could be attracted to the strong magnetic field. Strong magnets can erase magnetic media. Never let credit cards or electronic media contact or come near the mover or MagneMotion QuickStick 150 system.

Additional Warnings and Cautions

	Automatic Start Hazard – Whenever power is applied, the possibility of automatic movement of the vehicles on the QuickStick 150 transport system exists, which could result in personal injury.
	Hazardous Voltage – Risk of electric shock exists. Do not turn on electrical power to the power supplies, motors, and node controllers before you have connected all other transport system components.
	Magnetic Field Hazard – Strong magnets in use. To avoid severe injury: <ul style="list-style-type: none"> Handle only one vehicle or magnet array at a time. Vehicles and magnet arrays not being used must be individually secured in isolated packaging.
	ATTENTION: All equipment and hardware that is used to lift the motor or transport system must be properly sized and rated to lift and hold the weight of the motor or transport system safely. To guard against possible personal injury or equipment damage: <ul style="list-style-type: none"> Inspect all hardware for proper attachment before a motor or transport system is lifted. Do not let any part of the motor, transport system, or lift equipment to contact electrically charged conductors or components. Do not subject the motor or transport system to high rates of acceleration or deceleration during a lift or transportation. Do not allow personnel or their limbs directly beneath the motor or transport system during a lift.

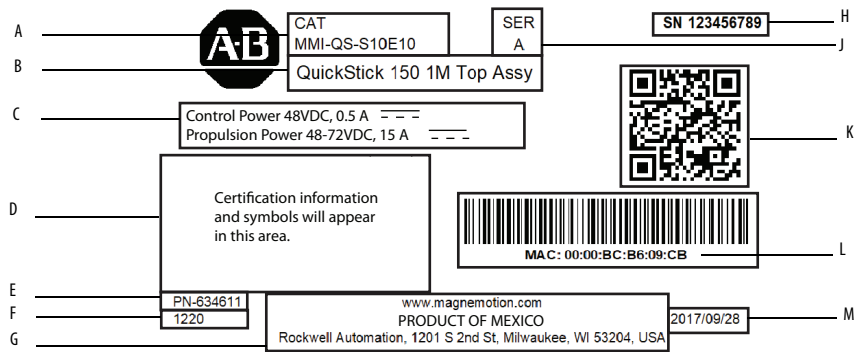
	Waste Electrical and Electronic Equipment (WEEE) <ul style="list-style-type: none"> All strong permanent magnets must be demagnetized before disposal. At the End Of Life, this equipment should be collected separately from any unsorted municipal waste. The magnet arrays (attached to the vehicles as the motor secondary) contain Neodymium Iron Boron (NdFeB) magnets and must be disposed of by following all facility, local, and national procedures for the disposal of hazardous materials.
	It is the responsibility of the end user/third party integrator to make sure that the installed QuickStick 150 transport system complies with the appropriate facility, local, and national regulations.
	Crush Hazard – Moving mechanisms have no obstruction sensors. Do not operate the QuickStick 150 components without barriers in place or personal injury could result in the squeezing or compression of fingers, hands, or other body parts between moving mechanisms. Do not place any body parts (for example, fingers) between a magnet array and any QuickStick 150 motors, ferrous material, or another magnet array to avoid injury from strong magnetic attractive forces.
	ATTENTION: Due to the weight and size of the motor, it is recommended that two people are used to lift, handle, or install the motors.

Specifications

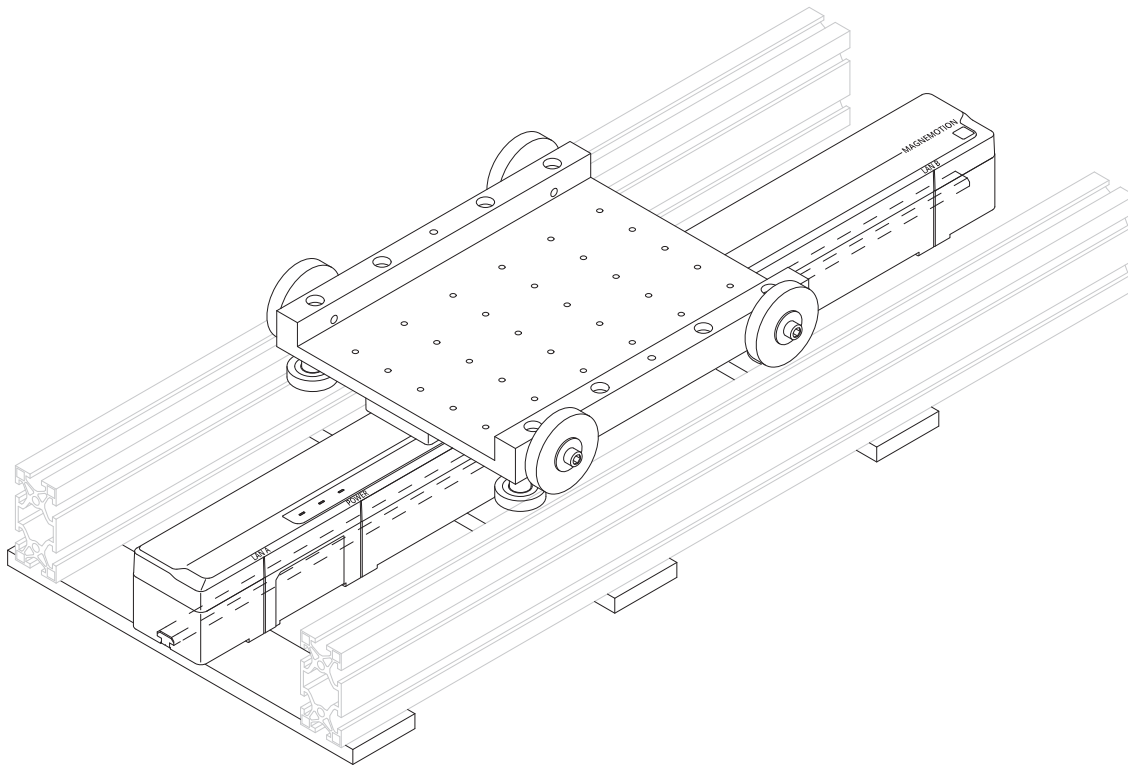
Attribute	MMI-QS-S10E10	MMI-QS-S10E05	MMI-QS-S10E03
Environment/ Temperature	<ul style="list-style-type: none"> Operational Ambient: 0...40 °C (32...104 °F). Operation up to 50 °C (122 °F) is possible with derated output power. Storage: -10...+60 °C (14...140 °F) Ingress: IP66 and IP67 		
Weight	15 kg (33 lb)	7.7 kg (17 lb)	5.1 kg (11.24 lb)
Dimensions (W x L x H)	87 mm x 978 mm x 82.5 mm (3.42 in x 38.50 in x 3.25 in)	87 mm x 498 mm x 82.5 mm (3.42 in x 19.61 in x 3.25 in)	87 mm x 306 mm x 82.5 mm (3.42 in x 12.05 in x 3.25 in)
Main Input	72V DC, 15.0 A DC Cont.		
Control Input	48V DC, 5.0 A		

Example Product Label and Label Definitions

Designator	Description
A	Motor Catalog Number
B	Motor Name and Length
C	Control / Propulsion Power
D	Certification Markings
E	Motor Part Number
F	Manufacturing Location
G	Country Of Origin
H	Motor Serial Number
J	Motor Series
K	QR Code to Access Product Page
L	Motor MAC Address
M	Motor Manufactured Date



QuickStick 150 Motor Installed on a Track



Additional Resources

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

Resource	Description
QuickStick 150 Technical Data, publication MMI-TD051	Provides motor specifications and site requirements for the QuickStick 150.
MagneMotion QuickStick and QuickStick HT Design Guide, publication MMI-RM001	Provides safety and design guidelines for installation preparations for the QuickStick 150.
QuickStick 150 User Manual, publication MMI-UM047	Provides the install, setup, and configuration information for the QuickStick 150.
System Design for Control of Electrical Noise, publication GMC-RM001	Provides information to help identify and minimize the possibility of electrical noise-related failures and to comply with noise regulations.
Guarding Against Electrostatic Damage, publication 8000-4.5.2	Provides detailed information on guarding against ESD.
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.

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.





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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