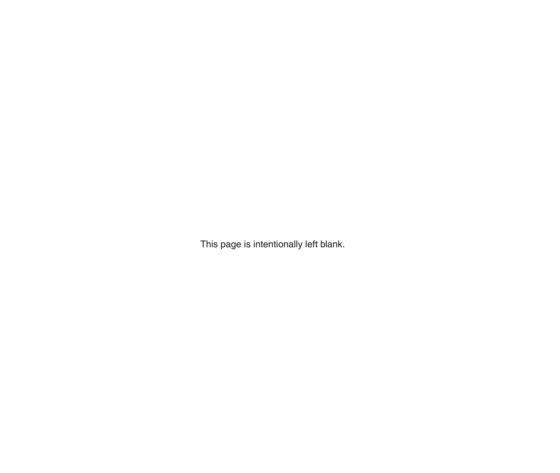


RMP40



EN	Publications for this product are available by scanning the barcode or visiting www.renishaw.com/rmp40.	
DE	Weitere Informationen zu diesem Produkt sind unter folgendem Link www.renishaw.de/rmp40 abrufbar.	
ES	Las publicaciones para este producto están disponibles a través de www.renishaw.es/rmp40.	
FR	Les documentations pour ce produit sont disponibles en visitant le site www.renishaw.fr/rmp40.	
IT	La documentazione per questo prodotto è disponibile visitando il sito www.renishaw.it/rmp40.	
日本語	本製品に関する資料は、 www.renishaw.jp/rmp40 からダウンロードいただけます。	

PL	Publikacje dotyczące tego produktu są dostępne w witrynie www.renishaw.pl/rmp40.	
CS	Dokumentaci k produktu najdete na www.renishaw.cz/rmp40.	
RU	Документация по данному изделию доступна на сайте www.renishaw.ru/rmp40.	
中文 (繁體)	請訪問雷尼紹網站以獲得此產品的的相關文件檔案: www.renishaw.com.tw/rmp40。	
中文 (简体)	请访问雷尼绍网站以获得此产品的相关文档 www.renishaw.com.cn/rmp40。	
한국어	이 제품의 관련 자료는 www.renishaw.co.kr/rmp40 에서 확인 가능 합니다.	



Safety

Information to the user

The RMP40 is supplied with two non-rechargeable ½AA lithium-thionyl chloride batteries (Please refer to the *RMP40 radio machine probe* installation guide [Renishaw part no. H-6588-8504]). Lithium batteries must be approved to (BS EN 62133:2013 [IEC 62133:2012]). Once the charge in the batteries is depleted, do not attempt to recharge them.



The use of this symbol on the batteries, packaging or accompanying documents indicates that used batteries should not be mixed with general household waste. Please dispose of the used batteries at a designated collection point. This will prevent potential negative effects on the environment and human health which could otherwise arise from inappropriate waste handling. Please contact your local authority or waste disposal service concerning the separate collection and disposal of batteries. All lithium and rechargeable batteries must be fully discharged or protected from short circuiting prior to disposal.

Please ensure replacement batteries are of the correct type and are fitted in accordance with the instructions in the installation guide (Please refer to the *RMP40 radio machine probe* installation guide [Renishaw part no. H-6588-8504]) for further information. For specific battery operating, safety and disposal guidelines, please refer to the battery manufacturer's literature.

- Ensure that all batteries are always inserted with the correct polarity.
- · Do not store batteries in direct sunlight or rain.
- · Do not expose to heat or dispose of the batteries in a fire.

- · Avoid forced discharge of the battery.
- Do not short-circuit or force discharge the batteries.
- Do not disassemble, pierce, deform or apply excessive pressure to the batteries.
- Do not swallow the batteries
- Keep the batteries out of the reach of children.
- · Do not allow batteries to get wet.
- Do not mix new and used batteries or battery types, as this will result in reduced life and damage to the batteries.
- If a battery is damaged, exercise caution when handling to avoid contact with electrolyte.

Please ensure that you comply with international and national battery transport regulations when transporting batteries or the products.

NOTE: Lithium batteries are classified as dangerous goods and strict controls apply to their shipment by air. To reduce the risk of shipment delays, if you need to return the RMP40 to Renishaw for any reason, do not return any batteries.

In all applications involving the use of machine tools, eye protection is recommended.

The RMP40 has a glass window. Handle with care if broken to avoid injury.

Information to the machine supplier/installer

It is the machine supplier's responsibility to ensure that the user is made aware of any hazards involved during operation, including those mentioned in Renishaw product literature, and to ensure that adequate quards and safety interlocks are provided.

Under certain circumstances, the probe signal may falsely indicate a probe seated condition. Do not rely on probe signals to halt the movement of the machine

Information to the equipment installer

All Renishaw equipment is designed to comply with the relevant EU and FCC regulatory requirements. It is the responsibility of the equipment installer to ensure that the following guidelines are adhered to, in order for the product to function in accordance with these regulations:

- any interface MUST be installed in a position away from any potential sources of electrical noise, i.e. power transformers, servo drives etc;
- all 0 V/ground connections should be connected to the machine "star point" (the "star point" is a single point return for all equipment ground and screen cables). This is very important and failure to adhere to this can cause a potential difference between grounds;
- all screens must be connected as outlined in the user instructions:
- cables must not be routed alongside high current sources, i.e. motor power supply cables etc, or be near high-speed data lines:
- · cable lengths should always be kept to a minimum.

Equipment operation

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Batteries

½ AA (3.6 V) lithium-thionyl chloride × 2

Saft LS 14250 **Tadiran** SL-750 **Xeno** XL-050F

X

Dubilier SB-AA02

Maxell ER3S

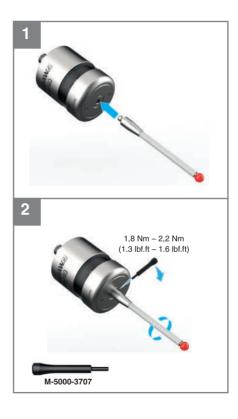
Sanyo CR 14250 SE

Tadiran SL-350, SL-550,

TL-4902, TL-5902, TL-2150, TL-5101

Varta CR ½ AA

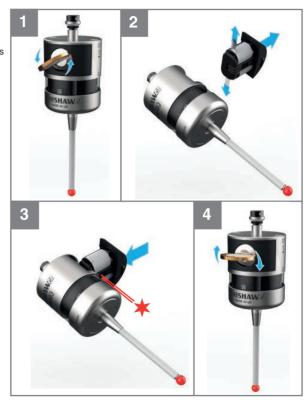
Fitting the stylus



CAUTION

Please remove the battery isolation device from the battery compartment before use.

* Take care not to short the battery contacts as this may be a fire hazard. Ensure the contact strips are located securely.



ΕN

Configuring the probe

Probe settings can be reviewed and configured by using the Opti Logic technique or Trigger Logic[™] technique.

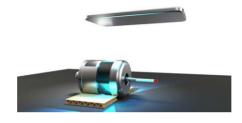
The Probe Setup app enables the application of Opti Logic and provides interactive instructions and informative videos to apply Trigger Logic to review and configure settings and to partner the probe.





Configuring the probe with Opti Logic

Opti Logic is accessed via the Probe Setup app.

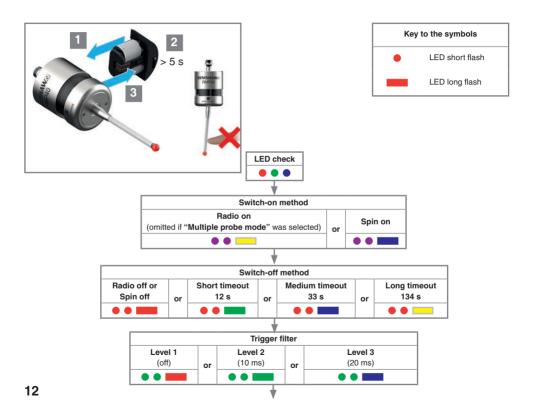


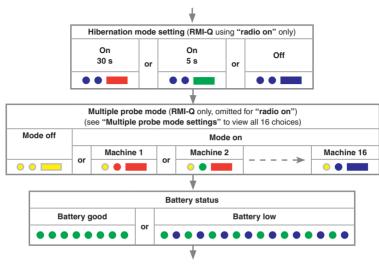
For full details about Opti Logic, refer to the Probe Setup app which is available for download on the App Store or Google Play.





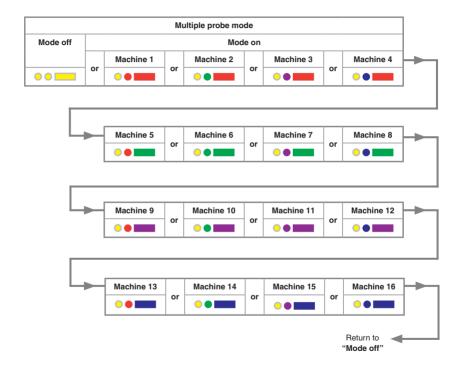
Reviewing the probe settings





Probe in standby mode (after 5 seconds)

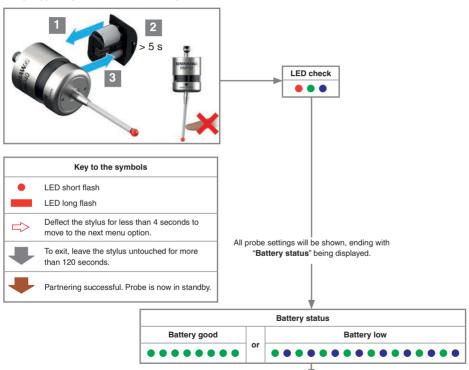
Multiple probe mode settings (RMI-Q application only)

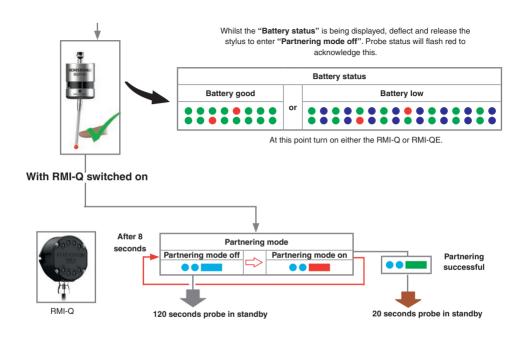


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Probe partnering function

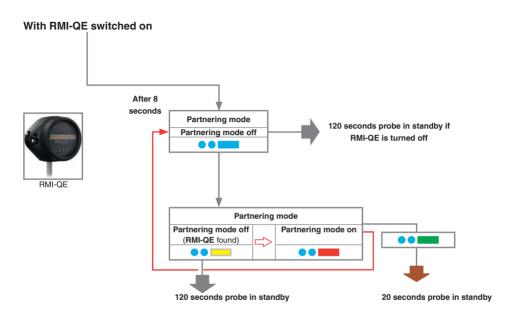
Using Trigger Logic™ the probe partnering function enables the probe to be partnered with RMI-Q or RMI-QE.





If partnering is unsuccessful "Partnering mode off" will be displayed again after 8 seconds.

Deflect the stylus for less than 4 seconds to select "Partnering mode on" again.



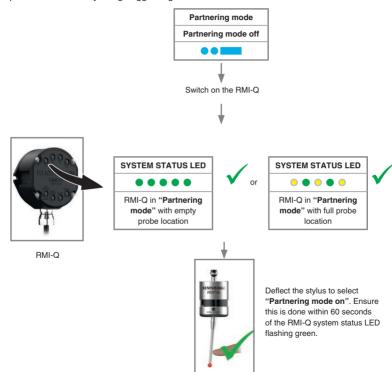
If partnering is unsuccessful "Partnering mode off" will be displayed again after 8 seconds.

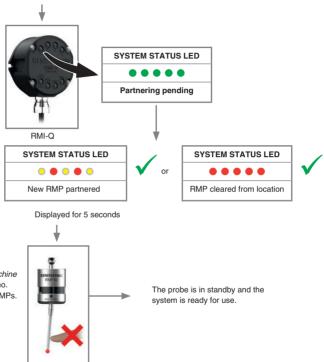
Deflect the stylus for less than 4 seconds to select "Partnering mode on" again.

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RMP40 - RMI-Q partnership

System set-up can be achieved by using Trigger Logic™.



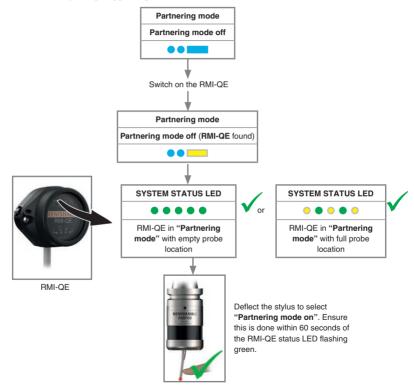


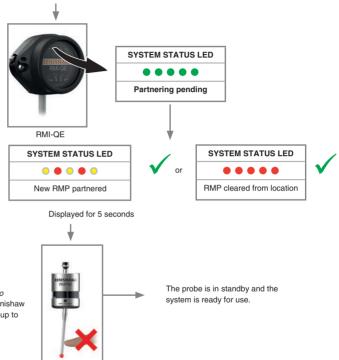
NOTE: Please refer to the *RMI-Q radio machine interface* installation guide (Renishaw part no. H-5687-8504) when partnering up to four RMPs.

> 20 s

RMP40 - RMI-QE partnership

System set-up can be achieved by using Trigger Logic™.



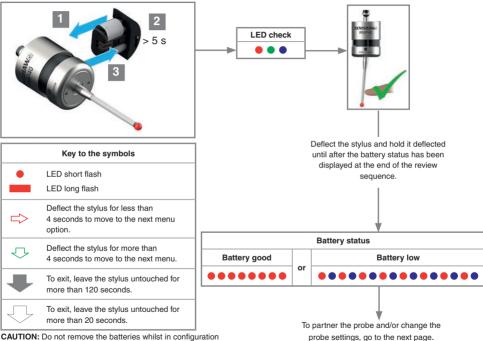


NOTE: Please refer to the *RMI-QE radio* machine interface installation guide (Renishaw part no. H-6551-8501) when partnering up to four RMPs.

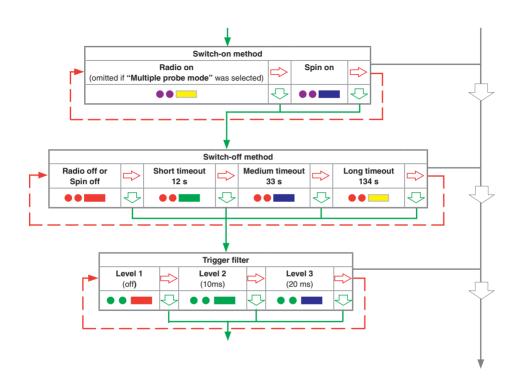
> 20 s

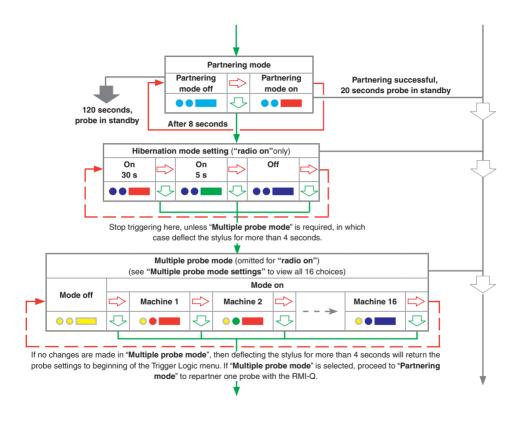
Changing the probe settings (when using with a RMI-Q)

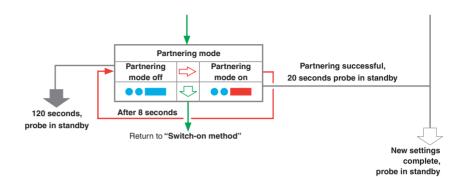
Probe settings can be changed using Trigger Logic™.



CAUTION: Do not remove the batteries whilst in configuration mode. To exit, leave the stylus untouched for more than 20 seconds.







NOTES:

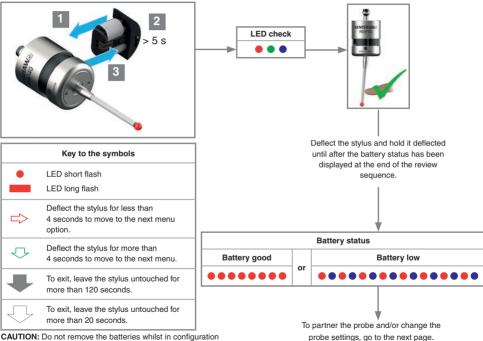
If using "Multiple probe mode", refer to the RMI-Q radio machine interface installation guide (Renishaw part no. H-5687-8504).

Further probes require the same "Multiple probe mode" setting, but there is no need to be partnered with the RMI-Q.

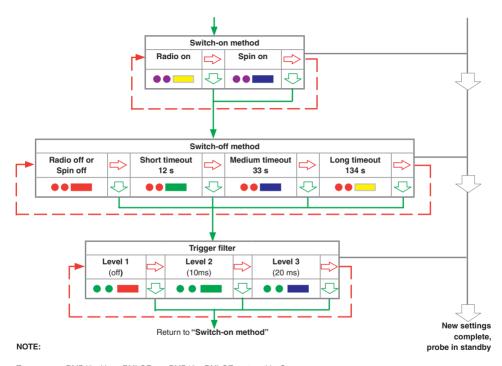
To partner an RMP40 with an RMI-Q see RMP40 – RMI-Q partnership. Once partnering has been successful, the RMP40 will revert to "Partnering mode off".

Changing the probe settings (when using with a RMI-QE)

Probe settings can be changed using Trigger Logic™.



CAUTION: Do not remove the batteries whilst in configuration mode. To exit, leave the stylus untouched for more than 20 seconds



To partner an RMP40 with an RMI-QE see RMP40 – RMI-QE partnership. Once partnering has been successful, the RMP40 will revert to "Partnering mode off".

Mounting the probe on a shank





Stylus on-centre adjustment





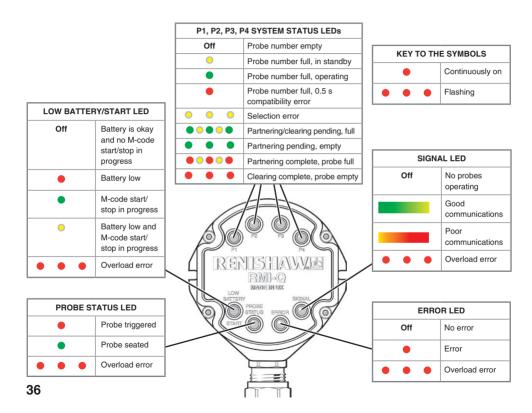


Cleaning

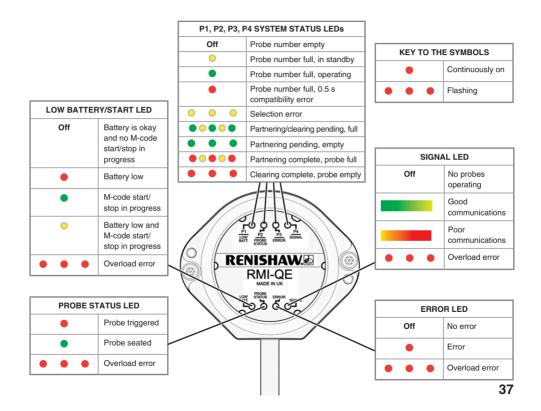
Use a clean cloth.



RMI-Q visual diagnostics



RMI-QE visual diagnostics



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All other brand names and product names used in this document are trade names, trade marks, or registered trade marks of their respective owners.

Warranty

Equipment requiring attention under warranty must be returned to your equipment supplier.

Unless otherwise specifically agreed in writing between you and Renishaw, if you purchased the equipment from a Renishaw company, the warranty provisions contained in Renishaw's CONDITIONS OF SALE apply. You should consult these conditions in order to find out the details of your warranty but, in summary, the main exclusions from the warranty are if the equipment has been:

- · neglected, mishandled or inappropriately used; or
- modified or altered in any way except with the prior written agreement of Renishaw.

If you purchased the equipment from any other supplier, you should contact them to find out what repairs are covered by their warranty.

China RoHS

For more information on China RoHS visit: www.renishaw.com/mtpchinarohs

EU declaration of conformity



Renishaw plc declares under its sole responsibility that the RMP40 is in conformity with all relevant Union legislation.

The full text of the EU declaration of conformity is available at: www.renishaw.com/mtpdoc

WEEE directive



The use of this symbol on Renishaw products and/or accompanying documentation indicates that the product should not be mixed with general household waste upon disposal. It is the responsibility of the end user to dispose of this product at a designated collection point for waste electrical and electronic equipment (WEEE) to enable reuse or recycling. Correct disposal of this product will help to save valuable resources and prevent potential negative effects on the environment. For more information, please contact your local waste disposal service or Renishaw distributor.

REACH regulation

Information required by Article 33(1) of Regulation (EC) No. 1907/2006 ("REACH") relating to products containing substances of very high concern (SVHCs) is available at:

www.renishaw.com/RFACH

FCC Information to user (USA only)

47 CFR Section 15.19

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

47 CFR Section 15.21

The user is cautioned that any changes or modifications not expressly approved by Renishaw plc or authorised representative could void the user's authority to operate the equipment.

Patents

Features of RMP40 and features of similar products are the subject of one or more of the following patents and/ or patent applications:

CN	100466003	IN	215787	US	6776344
CN	101287958	WO	2004/057552	US	6941671
CN	101482402	WO	2007/028964	US	7145468
EΡ	1185838	JP	3967592	US	7285935
EΡ	1373995	JΡ	4237051	US	7441707
EP	1425550	JP	4575781	US	7486195
EΡ	1457786	JP	4754427	US	7665219
EP	1477767	JP	4773677	US	7812736
EΡ	1477768	JP	4851488	US	7821420
EP	1576560	JP	5238749	US	9140547
EΡ	1701234	JP	5390719		
EΡ	1734426	KR	1001244		
EP	1804020	TW	1333052		
EΡ	1931936				
EP	1988439				
EP	2216761				

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E shanghai@renishaw.com

www.renishaw.com.cn

安全须知

用户须知

RMP40配有两节非充电型% AA锂亚硫酰氯电池(符合BS EN 62133:2013 [IEC 62133:2012] 标准)。电池电量耗尽之后,请勿尝试给电池充电。



在电池、包装或随附文档上使用本符号,表示废旧电池不可与普通生活垃圾混合。 请在指定的收集点处置废旧电池。 这样可以防止由于废品处理不当对环境和人类健康造成的潜在不良影响。 请联系当地相关政府部门或废品处置服务商,了解电池的单独回收与处置规定。 在处置前,必须使所有的锂电池和充电电池完全放电或采取防损路措施。

请确保备用电池型号正确,并按照本手册 中的说明和产品上所示进行安装。(雷尼绍文档编号H-6588-8512),了解更多信息。 有关具体的电池作业、安全和处置指导原则,请参阅电池制造商的资料。

- 确保所有安装的电池下负极方向正确。
- 请勿将电池存放在阳光直射或淋雨的地方。
- 请勿将电池加热或弃入火中处置。
- 避免将电池强制放电。
- 请勿使电池短路或强制放电。
- 请勿对电池进行拆解、穿透、施加过度压力,或使其变形。
- 请勿吞咽电池。
- 请将电池放在儿童无法接触的地方。
- 请将电池放在儿童无法接触的地方。
- 不要将新旧电池或不同的电池类型混用,因为这会缩短电池寿 命并损坏电池。
- 在运输电池或本产品时,请确保符合国际和国家电池运输条例。
 在运输电池或本产品时,请确保符合国际和国家电池运输条例。

注: 锂电池被定义为危险品,空运有严格的控制。为了减少运输 延期的风险,无论出于何种原因,若您需要将产品返回RMP40雷尼 绍,请勿包含任何电池。 在所有涉及使用机床的应用中,建议采取保护眼睛的措施。

RMP40有一个玻璃窗口。如果玻璃破碎,请务必小心,以免受伤。

机床供应商/安装商须知

机床制造商有责任确保用户了解操作中存在的任何危险,包括雷尼绍产品说明书中所述的危险,并应确保提供充分的防护装置和安全 联动装置。

在某些情况下,测头信号可能错误指示测头已复位状态。切勿单凭 测头信号来停止机床运动。

设备安装商须知

雷尼绍所有设备的设计均符合相关的EU和FCC监管要求l为使产品 按照这些规定工作。设备安装商有责任保证遵守以下指导原则。

- 任何接口的安装位置必须远离任何潜在的电噪声源,如变压器、 伺服系统驱动装置等。
- 所有0伏/接地连接都应当连接到机床接地终端上("接地终端" 是所有设备地线和屏蔽电缆的单点回路)。这一点非常重要,不 遵守此规定会造成接地之间存在电位差。
- 所有屏蔽装置都必须按使用说明书中所述进行连接:
- 电缆线路不得与电机电源电缆等高电流源并行或靠近高速数据 传输线:
- 电缆长度应始终保持最短。

设备操作

如果设备使用方式与制造商要求的方式不符,设备提供的保护功能可能会减弱。

Radio approvals

Canada: RMP40QE IC ID: 3928A-RMP40QE

RMP40MQE IC ID: 3928A-RMP40QE

This device complies with Industry Canada licenceexempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1)l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Japan: RMP40QE



RMP40M



This device is granted pursuant to the Japanese Radio Law and the Japanese Telecommunications Business Law This device should not be modified (otherwise the granted designation number will become invalid).

USA: RMP40QE FCC ID: KQGRMP40QE

RMP40MQE FCC ID: KQGRMP40QE

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For worldwide contact details, visit www.renishaw.com/contact



H-6588-8500-05