

RMI-QE radio machine interface



Specification

| Weight Iathes. Weight RMI-OE including 8 m (26.2 ft) of cable = 627 g (22.12 oz) RMI-OE including 30 m (49.2 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.2 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 30 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 10 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 10 m (49.4 ft) of cable = 1947 g (36.93 oz) RMI-OE including 10 m (49.4 ft) of table = 1947 g (49.4 ft) RMIP60, RMP60M and RMP600 Lattle inspection: RMP24-micro, RMP40, RMP400, RMP400, RMP60, RMP60M and RMP600 Lattle inspection: RMP24-micro, RMP40, RMP400, RMP60, RMP60M and RMP400 and RLP40H Tool setting: RTS Operating range Up to 15 m (49.2 ft) Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V Configurable M-code input Pulsed or level Output signal Pois Status 1, Low Battery, Error Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. Probe Status 2b Power supply voltage driven output, invertible. Probe Status 2b Power supply voltage driven output, invertible. Diagnostic LEDs Statr, low battery, probe status, error, signal condition and P1, P2, P3, P4 system status. Cable (to machine controller) Specification 06.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Bart, low battery, probe status 2b Power sup | | | | | |
|--|--------------------------------------|---------------|--|--|--|
| RMI-QE including 15 m (49.2 ft) of cable = 1047 g (38.9 az) RMI-QE including 30 m (98.4 ft) of cable = 1972 g (69.56 az) Transmission type Radio approval regions Frequency-Hopping spread spectrum (FHSS) radio Radio frequency 2400 MHz to 248.5 MHz Radio approval regions UK, EU, ETT, Japan and USA (China exempt), For details about other regions, contact Renishaw. Probes per system Spin/shank switch on = up to four Spin/shank switch on = up to four Compatible probes ' Radio M-code on = up to four Spin/shank switch on = up to four Component setting/inspection: RLP40 and RLP40H Tool setting: RTS Up to 15 m (49.2 ft) Operating range Up to 15 m (49.2 ft) Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V | Principal application | | | | |
| Radio approval regions Radio frequency 2400 MHz to 2483.5 MHz Radio approval regions UK, EU, EFTA, Japan and USA (China exempt), For details about other regions, contact Renishaw. Probes per system Radio M-code on = up to four Spin/shank switch on = up to four Compatible probes ' Component setting/inspection: RMP24-micro, RMP40, RMP40M, RMP400, RMP60, RMP60M and RMP600 Lathe inspection: RLP40 and RLP40H Tool setting: RTS Operating range Up to 15 m (49.2 ft) Supply voltage 12 Vdc to 30 Vdc Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V Configurable M-code input Pulsed or level Output signal Probe Status 1, Low Battery, Error Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. Probe Status 2b Fower supply voltage driven output, invertible. Probe Status 2b Fower supply voltage driven output, invertible. Input / output protection Electronically protected inputs. Outputs protected inputs. Start, low battery, probe status, error, signal condition and P1, P2, P3, P4 system status. Cable (to machine controller) Specification 06.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Mounting Specification 8 m (26.2 ft), 15 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assembiles are also available). Mounting Specification 8 m (26.2 ft), 15 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assembiles are also available). | Weight | | RMI-QE including 15 m (49.2 ft) of cable = 1047 g (36.93 oz) | | |
| For details about other regions, contact Renishaw. Probes per system Radio M-code on = up to four Spin/shank switch on = up to four Compatible probes ' Component setting/inspection: RMP24-micro, RMP40, RMP40M, RMP400, RMP60, RMP60M and RMP600 Lathe inspection: RLP40H Tool setting: RTS Operating range Up to 15 m (49.2 th) Supply voltage 12 Vdc to 30 Vdc Supply voltage 500 mA peak, < 200 mA typical from 12 V to 30 V | Transmission type | | | | |
| Spin/shank switch on = up to four Compatible probes ' Component setting/inspection: RMP24-micro, RMP40, RMP400, RMP60, RMP604 and RMP600 Lathe inspection: RLP40 and RLP40H Tool setting: RTS Operating range Up to 15 m (49.2 ft) Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V | Radio approval regions | | | | |
| BMP60, RMP60M and RMP600 Lathe inspection: RLP40 and RLP40H Tool setting: RTS Operating range Up to 15 m (49.2 ft) Supply vortage 12 Vdc to 30 Vdc Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V | Probes per system | | | | |
| Supply voltage 12 Vdc to 30 Vdc Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V | Compatible probes ¹ | | RMP60, RMP60M and RMP600 Lathe inspection: RLP40 and RLP40H | | |
| Supply current 500 mA peak, < 200 mA typical from 12 V to 30 V | Operating range | | Up to 15 m (49.2 ft) | | |
| Configurable M-code input Pulsed or level Output signal Probe Status 1, Low Battery, Error Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. Probe Status 2a 5 V isolated driven output, invertible. Probe Status 2b Power supply voltage driven output, invertible. Input / output protection Electronically protected inputs. Outputs protected by over current protection circuit. Diagnostic LEDs Start, low battery, probe status, error, signal condition and P1, P2, P3, P4 system status. Cable (to machine controller) Specification O6.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Mounting Ength 8 m (26.2 ft), 15 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assemblies are also available. Mounting Flush mounting. Sub mounting or directional mounting are also possible with optional mounting brackets (available separately). Environment IP rating IP X8, BS EN 60529:1992+A2:2013 (IK rating IRC 60529:1992+A2:2013 (IK rating IK rating IK03 (EN/IEC 62262:2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +158 °F) Operating temperature +5 °C to +55 °C (+41 °F to +131 °F) Indoor/outdoor use Indoor/outdoor use Altitude <3000 m Relative humidity 5% to 95% Wet location Yes, water/oil/ | Supply voltage | | 12 Vdc to 30 Vdc | | |
| Output signal Probe Status 1, Low Battery, Error Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. Probe Status 2a 5 V isolated driven output, invertible. Probe Status 2b Power supply voltage driven output, invertible. Input / output protection Electronically protected inputs. Outputs protected by over current protection circuit. Diagnostic LEDs Start, low battery, probe status, error, signal condition and P1, P2, P3, P4 system status. Cable (to machine controller) Specification O6.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Mounting Specification O6.1 mm (0.24 in), 15 m (49.2 ti) and 30 m (98.4 ti) standard lengths. Optional 50 m (164.0 ft) cable assemblies are also available. Mounting IP rating IP X8, BS EN 60529:1992+A2:2013 (IEC 60529:1992+A2:2013) IK rating IK ating IK03 (EN/IEC 62262: 2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +138 °F) Operating temperature -25 °C to +70 °C (-41 °F to +131 °F) Indoor/outdoor use Indoor/outdoor use Indoor use Attitude <3000 m Relative humidity 5% to 95% Wet location Yes, water/oil/coolant | Supply current | | 500 mA peak, < 200 mA typical from 12 V to 30 V | | |
| Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. Probe Status 2a 5 V isolated driven output, invertible. Probe Status 2b Power supply voltage driven output, invertible. Input / output protection Electronically protected inputs. Outputs protected by over current protection circuit. Diagnostic LEDs Start, low battery, probe status, error, signal condition and P1, P2, P3, P4 system status. Cable (to machine controller) Q6.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Cable (to machine controller) Secification Q6.1 mm (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assemblies are also available. Mounting Flush mounting. Sub mounting or directional mounting are also possible with optional mounting brackets (available separately). Environment IP rating IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1989+A1:1999+A2:2013) IK rating IK rating IK03 (EN/IEC 62262: 2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +158 °F) Operating temperature Operating temperature +5 °C to +55 °C (+41 °F to +131 °F) Indoor/outdoor use Altitude <3000 m | Configurable M-code input | | Pulsed or level | | |
| Outputs protected by over current protection circuit. Diagnostic LEDs Start, low battery, probe status, error, signal condition and P1, P2, P3, P4 system status. Cable (to machine controller) Specification Ø6.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Length 8 m (26.2 ft), 15 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assemblies are also available. Mounting Flush mounting. Sub mounting or directional mounting are also possible with optional mounting brackets (available separately). Environment IP rating IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1992+A2:2013) IK rating IK rating IK03 (EN/IEC 62262: 2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +158 °F) Operating temperature Operating temperature +55 °C to +55 °C (+41 °F to +131 °F) Indoor/outdoor use Indoor/outdoor use Indoor use Altitude <3000 m Relative humidity 5% to 95% Wet location Yes, water/oil/coolant | | | Voltage-free solid-state relay (SSR) outputs, configurable normally open or normally closed. Probe Status 2a 5 V isolated driven output, invertible. Probe Status 2b | | |
| Status. Specification Ø6.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. Controller) Length 8 m (26.2 ft), 15 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assemblies are also available. Mounting Flush mounting. Sub mounting or directional mounting are also possible with optional mounting brackets (available separately). Environment IP rating IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1999+A1:1999+A2:2013) IK rating IK03 (EN/IEC 62262: 2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +158 °F) Operating temperature +5 °C to +55 °C (+41 °F to +131 °F) Indoor/outdoor use Indoor use Altitude <3000 m | Input / output protection | | | | |
| controller) Length 8 m (26.2 ft), 15 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional 50 m (164.0 ft) cable assemblies are also available. Mounting Flush mounting. Sub mounting or directional mounting are also possible with optional mounting brackets (available separately). Environment IP rating IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1989+A1:1999+A2:2013) IK rating IK03 (EN/IEC 62262: 2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +158 °F) Operating temperature +5 °C to +55 °C (+41 °F to +131 °F) Indoor/outdoor use Indoor use Altitude <3000 m | Diagnostic LEDs | | | | |
| Length 8 m (26.2 ft), 18 m (49.2 ft) and 30 m (98.4 ft) standard lengths. Optional so m (164.0 ft) cable assemblies are also available. Mounting Flush mounting. Sub mounting or directional mounting are also possible with optional mounting brackets (available separately). Environment IP rating IPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1989+A1:1999+A2:2013) IK rating IK03 (EN/IEC 62262: 2002) [for glass window] Storage temperature -25 °C to +70 °C (-13 °F to +158 °F) Operating temperature +5 °C to +55 °C (+41 °F to +131 °F) Indoor/outdoor use Indoor use Altitude <3000 m | Cable (to machine controller) | Specification | Ø6.1 mm (0.24 in), 16-core screened cable, each core 28 AWG. | | |
| optional mounting brackets (available separately).EnvironmentIP ratingIPX8, BS EN 60529:1992+A2:2013 (IEC 60529:1989+A1:1999+A2:2013)IK ratingIK03 (EN/IEC 62262: 2002) [for glass window]Storage temperature-25 °C to +70 °C (-13 °F to +158 °F)Operating temperature+5 °C to +55 °C (+41 °F to +131 °F)Indoor/outdoor useIndoor useAltitude<3000 m | | Length | | | |
| IteratingIteratingIteratingIteratingIteratingIK ratingIK03 (EN/IEC 62262: 2002) [for glass window]Storage temperature-25 °C to +70 °C (-13 °F to +158 °F)Operating temperature+5 °C to +55 °C (+41 °F to +131 °F)Indoor/outdoor useIndoor useAltitude<3000 m | Mounting | | | | |
| Storage temperature-25 °C to +70 °C (-13 °F to +158 °F)Operating temperature+5 °C to +55 °C (+41 °F to +131 °F)Indoor/outdoor useIndoor useAltitude<3000 m | Environment | | IP rating | | |
| Operating temperature+5 °C to +55 °C (+41 °F to +131 °F)Indoor/outdoor useIndoor useAltitude<3000 m | | | IK rating | IK03 (EN/IEC 62262: 2002) [for glass window] | |
| Indoor/outdoor useIndoor useAltitude<3000 m | | | Storage temperature | –25 °C to +70 °C (–13 °F to +158 °F) | |
| Altitude<3000 mRelative humidity5% to 95%Wet locationYes, water/oil/coolant | | | Operating temperature | +5 °C to +55 °C (+41 °F to +131 °F) | |
| Relative humidity5% to 95%Wet locationYes, water/oil/coolant | | | Indoor/outdoor use | Indoor use | |
| Wet location Yes, water/oil/coolant | | | Altitude | <3000 m | |
| | | | Relative humidity | 5% to 95% | |
| Pollution degree Level 2 | | | Wet location | Yes, water/oil/coolant | |
| | | | Pollution degree | Level 2 | |

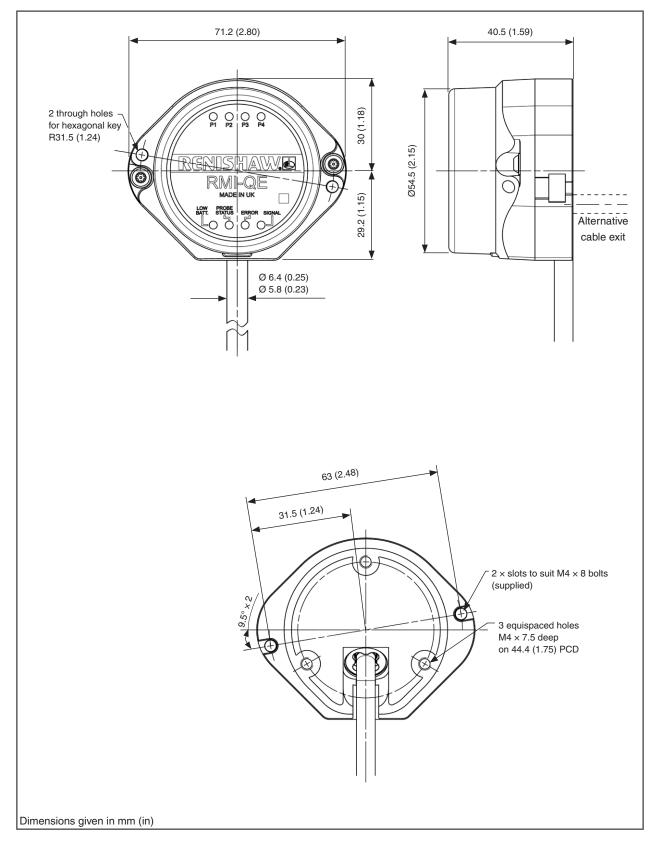
Only third-generation radio probes can be used with the RMI-QE. These are easily identified by a "model QE" marking which is engraved on the probe body. First- and second-generation radio probes, which do not have the 'model QE' marking, cannot be used with the RMI-QE.

www.renishaw.com/rmi-qe

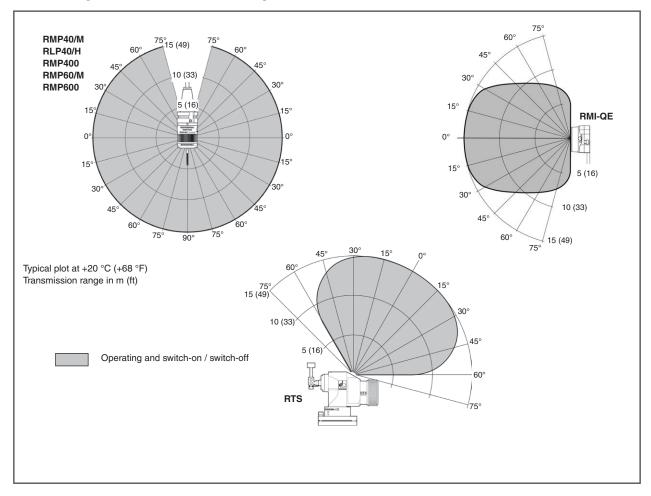




RMI-QE dimensions







RMI-QE performance envelope

Spare parts and accessories

A full range of spare parts and accessories is available. Contact Renishaw for a full list.

www.renishaw.com/rmi-qe



📞 +44 (0) 1453 524524

www.com uk@renishaw.com

© 2022–2025 Renishaw plc. All rights reserved. This document may not be copied or reproduced in whole or in part, or transferred to any other media or language by any means, without the prior written permission of Renishaw. RENISHAW® and the probe symbol are registered trade marks of Renishaw plc. Renishaw product names, designations and the mark 'apply innovation' are trade marks of Renishaw plc. Renishaw product or company names are trade marks of their respective owners. WHILE CONSIDERABLE EFFORT WAS MADE TO VERIFY THE ACCURACY OF THIS DOCUMENT AT PUBLICATION, ALL WARRANTIES, CONDITIONS, REPRESENTATIONS AND LIABILITY, HOWSOEVER ARISING, ARE EXCLUDED TO THE EXTENT PERMITTED BY LAW. RENISHAW RESERVES THE RIGHT TO MAKE CHANGES TO THIS DOCUMENT AND TO THE EXTENT PERMITTED BY LAW. RENISHAW RESERVES THE RIGHT TO MAKE CHANGES TO THIS DOCUMENT AND TO THE EXCLIPTED AND/OR SOFTWARE AND THE SPECIFICATION DESCRIBED HEREIN WITHOUT OBLIGATION TO PROVIDE NOTICE OF SUCH CHANGES. Renishaw plc. Registered in England and Wales. Company no: 1106260. Registered office: New Mills, Wotton-under-Edge, Glos, GL12 8JR, UK.

Part no.: H-6551-8200-02-B Issued: 04.2025