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RMI-QE radio machine interface

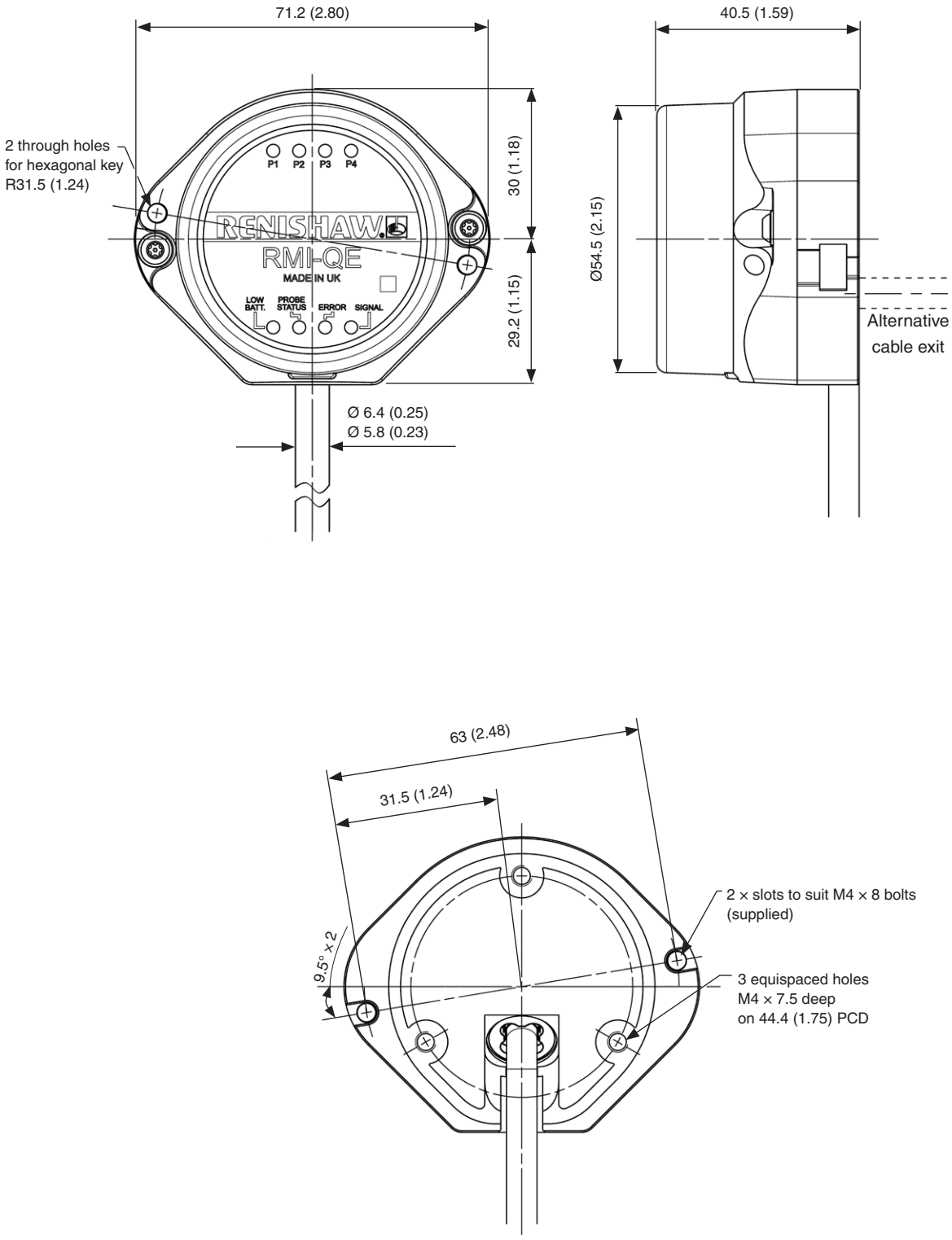


Specification

Principal application		All machining centres, 5-axis machines, twin spindle machines and vertical turret lathes.	
Weight		RMI-QE including 8 m (26.2 ft) of cable = 627 g (22.12 oz) RMI-QE including 15 m (49.2 ft) of cable = 1047 g (36.93 oz) RMI-QE including 30 m (98.4 ft) of cable = 1972 g (69.56 oz)	
Transmission type		Frequency-hopping spread spectrum (FHSS) radio 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 [1]		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 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	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 60529:1989+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
		Relative humidity	5% to 95%
		Wet location	Yes, water/oil/coolant
		Pollution degree	Level 2

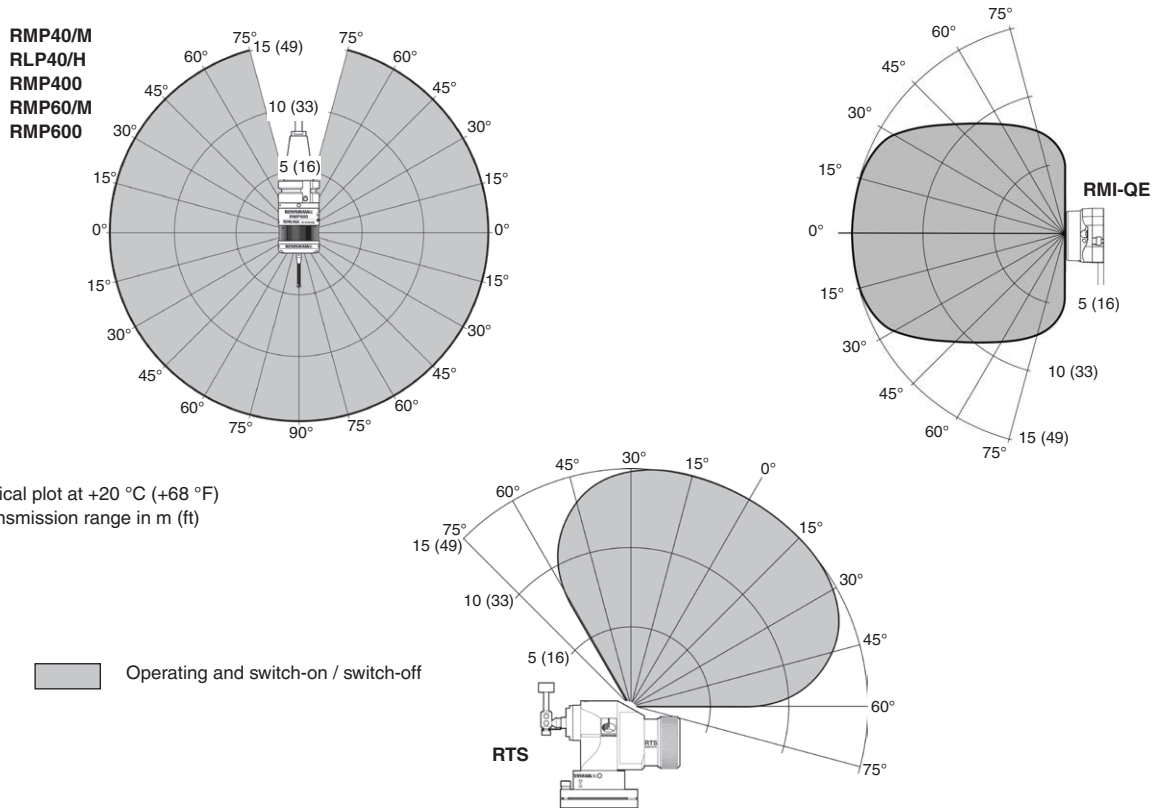
[1] Only third-generation radio probes can be used with the RMI-QE. These are easily identified by a “model QE” marking which is engraved on the probe body. First- and second-generation radio probes, which do not have the ‘model QE’ marking, cannot be used with the RMI-QE.

RMI-QE dimensions



Dimensions given in mm (in)

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

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