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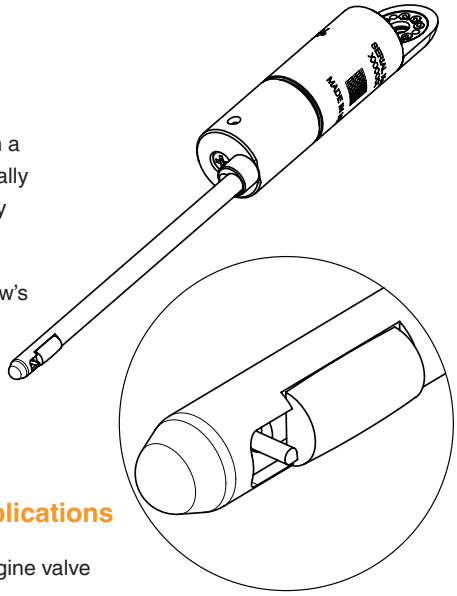
Modules for SFP2 surface finish probe SFM-C2

www.renishaw.com/SFP2

Enhanced access and inspection capability for integrated surface finish measurement

The SFP2 system consists of a probe and a range of SFM modules which have been designed to suit the demands of specific parts and features encountered in a precision manufacturing environment. The probe and modules can be automatically interchanged with all other REVO® probe options, providing the flexibility to easily select the optimum tool to inspect a wide range of features.

Each SFM module is its own miniature measuring device, incorporating Renishaw's proprietary encoder system to transduce the motion of the stylus tip.



Features

The C-series of modules have the ability to locate the stylus in small diameter bores without significant degradation in performance. The skid and stylus are inline so that both travel along the axis of the bore.

NOTE: Not compatible with SFH-2.

Typical applications

Automotive engine valve guide ways.

Specifications

Diamond tip radius (µm)		2 or 5
Surface finish measurement range (µm)	**2 µm modules**	6.3 to 0.05 Ra
	5 µm modules	6.3 to 0.10 Ra
Typical surface finish accuracy (of nominal Ra) *		±(10% + 35 nm)
Skid / stylus arrangement		In-line (stylus lagging skid)
Skid material		Tungsten carbide
Nominal stylus tip protrusion beyond skid (mm)		0.37
Minimum feature access (mm)		Ø5 × 50
Skid length / radius (mm)		4.6 / 40
Skid width / radius (mm)		2.5 / 1.25
Skid contact force (N)		0.15
Stylus contact force (N)		0.003
SFM / SFH knuckle adjustment range		±90°
Weight (g)		12
Resolution (nm)		1
Measurement speed (mm/s)		Up to 1
Stylus holder compatibility		SFH-1 only
Lateral scanning capability		No

* Accuracy values stated are dependent upon a number of system variables. These include the machine size and configuration, scan orientation, condition of stylus tip, part fixturing system and environmental noise.

Renishaw plc
New Mills, Wotton-under-Edge,
Gloucestershire, GL12 8JR
United Kingdom

T +44 (0)1453 524524
F +44 (0)1453 524901
E uk@renishaw.com
www.renishaw.com

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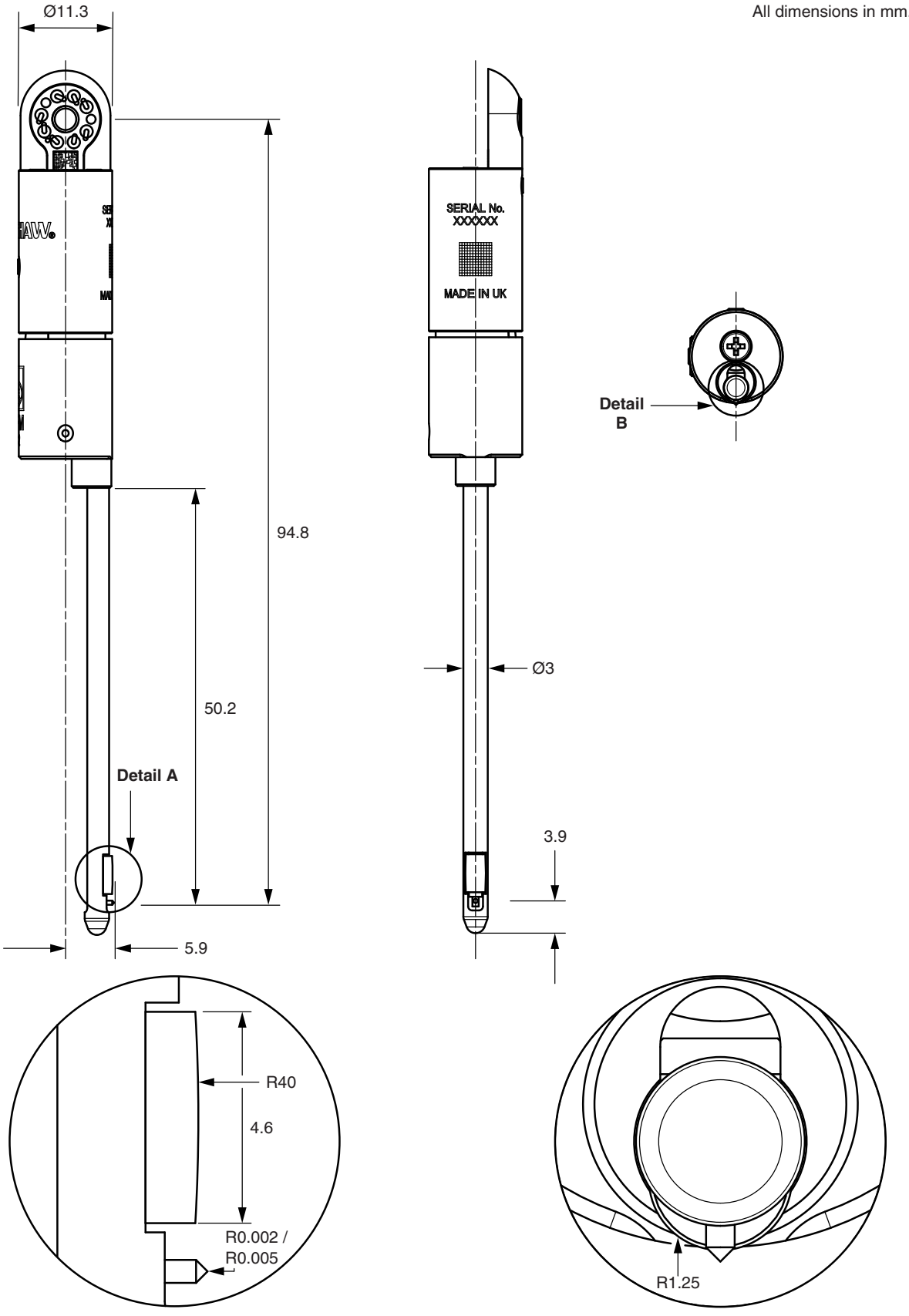
All dimensions in mm.



Detail A

Detail B

For worldwide contact details, please visit our main web site at www.renishaw.com/contact

H-1000-2301-04

Issued: 09.2019

Part no. H-1000-2301-04-A