

# RGS40-G glass encoder system



**Open, optical system**



**Excellent dirt immunity**



**Defined thermal behaviour**

**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](http://www.renishaw.com)

**RENISHAW**   
apply innovation

The RGS40-G is a 40 µm chrome on glass scale designed to be read by the filtering RGH40 series linear encoder, a recent addition to the RG4 product family.

Being so versatile, the RGS40-G boasts an impressive list of application areas...precision motion stages, linear motors, scientific instruments, optical inspection, XY stages, medical equipment and many more. The system offers :-

- high-speed, non-contact, optical performance
- specified graduation accuracy which eliminates the need for linear compensation e.g.  
170 mm ±1.27 µm  
500 mm ±2.75 µm
- each length of RGS40-G is individually calibrated and supplied with a calibration certificate
- defined thermal behaviour
- resistant to dust, scratches and light oils found in most everyday applications
- available in eight measuring lengths...120, 170, 220, 270, 300, 500, 750 and 1000 mm
- mounted directly to the substrate using either mechanical clips or specially formulated adhesive
- integral LED ensures easy and reliable set-up
- a range of industry standard quadrature outputs from 1 Vpp analogue or RS422 digital
- reference marks can be epoxy mounted directly to the scale at any point to suit the installation
- dual limit switches are mounted off the scale at customer selected locations
- resolutions available from 10 µm to 0.1 µm



### Renishaw offices worldwide

**Australia**  
Renishaw Oceania, Melbourne  
**T** +61 3 9521 0922  
**F** +61 3 9521 0932  
**E** australia@renishaw.com

**Brazil**  
Renishaw Latino Americana Ltda, São Paulo  
**T** +55 11 4195 2866  
**F** +55 11 4195 1641  
**E** brazil@renishaw.com

**The People's Republic of China**  
Renishaw Representative Office, Beijing  
**T** +86 10 6410 7993  
**F** +86 10 6410 7992  
**E** china@renishaw.com

Renishaw Representative Office, Shanghai  
**T** +86 21 6353 4897/5697  
**F** +86 21 6353 4881  
**E** china@renishaw.com

**France**  
Renishaw S.A., Marne la Vallée  
**T** +33 1 64 61 84 84  
**F** +33 1 64 61 65 26  
**E** france@renishaw.com

**Germany**  
Renishaw GmbH, Pliezhausen  
**T** +49 7127 9810  
**F** +49 7127 88237  
**E** germany@renishaw.com

**Hong Kong**  
Renishaw (Hong Kong) Ltd, Kowloon Bay  
**T** +852 2753 0638  
**F** +852 2756 8786  
**E** hongkong@renishaw.com

**India**  
Renishaw Metrology Systems Pvt Ltd, Bangalore  
**T** +91 80 5320 144  
**F** +91 80 5320 140  
**E** india@renishaw.com

**Indonesia**  
Renishaw Representative Office, Jakarta  
**T** +62 21 428 70153  
**F** +62 21 424 3934  
**E** indonesia@renishaw.com

**Italy**  
Renishaw S.p.A., Torino  
**T** +39 011 966 10 52  
**F** +39 011 966 40 83  
**E** italy@renishaw.com

**Japan**  
Renishaw K.K., Tokyo  
**T** +81 3 5332 6021  
**F** +81 3 5332 6025  
**E** japan@renishaw.com

**Nagoya**  
**T** +81 52 733 1321  
**F** +81 52 733 7705  
**E** japan@renishaw.com

**The Netherlands**  
Renishaw International B.V., Prinsengeb., Netherlands  
**T** +31 76 543 11 00  
**F** +31 76 543 11 09  
**E** benelux@renishaw.com

**Singapore**  
Renishaw Representative Office  
**T** +65 8975466  
**F** +65 8975467  
**E** singapore@renishaw.com

**Slovenia**  
RLS merilna tehnika d.o.o., Ljubljana  
**T** +386 1 52 72 100  
**F** +386 1 52 72 129  
**E** mail@rls.si

**South Korea**  
Renishaw Liaison Office, Seoul  
**T** +82 2 565 6878  
**F** +82 2 565 6879  
**E** southkorea@renishaw.com

**Spain**  
Renishaw Iberica S.A., Barcelona  
**T** +34 93 478 21 31  
**F** +34 93 478 16 08  
**E** spain@renishaw.com

**Switzerland**  
Renishaw A.G., Pfäffikon  
**T** +41 55 415 50 60  
**F** +41 55 415 50 69  
**E** switzerland@renishaw.com

**Taiwan**  
Renishaw Representative Office  
**T** +886 4 251 3665  
**F** +886 4 251 3621  
**E** taiwan@renishaw.com

**UK (Head Office)**  
Renishaw plc, Gloucestershire  
**T** +44 1453 524524  
**F** +44 1453 524901  
**E** uk@renishaw.com

**USA**  
Renishaw Inc., Hoffman Estates, IL.  
**T** +1 847 286 9953  
**F** +1 847 286 9974  
**E** usa@renishaw.com

**For all other countries**  
**T** +44 1453 524524  
**F** +44 1453 524901  
**E** international@renishaw.com