

Renishaw plc

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## FUNCTIONAL SAFETY CERTIFICATE

Renishaw plc declares that, under the terms of CSA SIRA functional safety certificate SIRA CASS00023/01, for the management of functional safety activities up to SIL3/PLd, that:

- All length options and mounting options for the FORTiS-S™ FS and FORTiS-N™ FS variants,
- when used with the BiSS® Safety or Siemens DRIVE-CLiQ™ protocol options, and
- when used with Renishaw approved cables,

have been independently assessed by the Renishaw plc Functional Safety Authority and have been found to meet the requirements of:

- IEC 61508-1:2010, IEC 61508-2:2010 and IEC 61508-3:2010
- IEC 61800-5-2:2016
- ISO 13849-1:2015 and ISO 13849-2:2012

when used as an element / subsystem for use in safety related systems performing safety functions up to and including:

- SIL2 with HFT = 0 (1oo1),
- Category 3, PLd.

### Notes:

This product must not be put into service until it has been installed and commissioned in accordance with the instructions detailed by the FORTiS™ FS Installation Guide and Safety manuals M-6725-9026 FORTiS-N FS IG [EN] / M-6725-9016 FORTiS-S FS IG [EN]

For full details of the safety function, the functional safety data, fault exclusions and the limitations of use, see the above documents which can be accessed at

[www.renishaw.com/fsencoders](http://www.renishaw.com/fsencoders).

The person authorised to conduct the functional safety assessment and issue the functional safety certificate is:

Martin Curtis, Functional Safety Authority (Encoder Products Division)  
Renishaw PLC, New Mills, Wotton-under-Edge, Gloucestershire, GL12 8JR, United Kingdom.

10/03/2021

X 

Martin Curtis  
Functional Safety Authority (EPD)  
Signed by: Martin Curtis

Place: Wotton-under-Edge.

This certificate is valid until 10/03/2026.

Functional safety certificate number FSC003-01

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