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SIL2 FUNCTIONAL SAFETY PLd

FUNCTIONAL SAFETY CERTIFICATE

Renishaw plc declares that, under the terms of CSA SIRA functional safety certificate SIRA CASS00023[1], for the management of functional safety activities up to SIL3/PLd, the RESOLUTE™ Functional Safety Siemens DRIVE-CLiQ encoder system, standard and UHV encoder systems, when used with the DRIVE-CLiQ interface:

- with up to 10m cable length,
- and when used with suitable rotary and linear scale types,
- and when used with Renishaw approved extension cables,

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

- BS EN IEC 61508-1:2010, BS EN IEC 61508-2:2010 and BS EN IEC 61508-3:2010
- BS EN 61800-5-2:2017 (IEC 61800-5-2:2016)
- BS EN ISO 13849-1:2015 and BS EN ISO 13849-2:2012
- BS EN IEC 61784-3:2021

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 RESOLUTE™ Functional Safety Installation guide and Safety manual - Siemens DRIVE-CLiQ encoder system (L-9796-9134).

- For full details of the safety function, the functional safety data, fault exclusions and the limitations of use, see the above document.
- The above document can be accessed at www.renishaw.com/fsencoders.
- The Siemens DRIVE-CLiQ interface must be used outside of the UHV environment.
- The Siemens DRIVE-CLIQ system is not certified for use in an ETR environment.

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.

06/11/2026

X M. Curtis

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

Place: Wotton-under-Edge.

This certificate is valid until 17th November 2031.

Functional safety certificate number FSC004-03

[1] See Renishaw resource centre at https://www.renishaw.com/resourcecentre/en for CASS certificate