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FUNCTIONAL SAFETY CERTIFICATE

Renishaw plc declares that, under the terms of CSA SIRA functional safety certificate SIRA CASS00023¹ for the management of functional safety activities up to SIL3/PLe, the RESOLUTE™ BiSS Safety readhead:

- 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 have 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

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™ FS Installation Guide and Safety manual with BiSS® Safety encoder system (M-9755-9109).

- 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 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.

15/11/2024

X 

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

Place: Wotton-under-Edge. This certificate is valid until 18th November 2029.

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