

Certificate



No.: 968/FSP 1765.01/23

Product tested	Safety Communication Profile	Certificate holder	Avago Technologies (M) Sdn. Bhd. – a Broadcom Inc. Company Bayan Lapas Free Industrial Zone Phase 3 11900 Bayan Lapas Penang Malaysia
Type designation	Bi-directional, Serial, Half-Duplex, Asynchronous Communication Protocol for Absolute Encoder Systems with Safety Integrated: ENCODER SERIAL LINK SAFETY (ESL-SAFETY)		
Codes and standards	IEC 61508 Parts 1-7:2010	IEC 61784-3:2021	
Intended application	The ESL-SAFETY safety communication profile complies with the requirements of IEC 61784-3 and IEC 61508, and can be used in applications up to SIL3 according to IEC 61508.		
Specific requirements	The assessment of the correct implementation of this safety communication profile needs to be considered as part of each product evaluation. Under assumption of the maximum number of logical connections, the largest amount of payload data and the shortest cycle time, the residual error rate per hour (RER) will be >1% of the permissible PFH for SIL 3 and has therefore to be accounted for in the overall reliability calculations. For information on RER, error detection and diagnostic handling at master and slave devices see the respective application notes.		

Valid until 2028-10-24

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT FSP1 V3.0:2020 in its actual version, whose results are documented in Report No. 968/FSP 1765.01/23 dated 2023-10-18. This certificate is valid only for products, which are identical with the product tested. Issued by the certification body accredited by DAkkS according to DIN EN ISO/IEC 17065. The accreditation is only valid for the scope listed in the annex to the accreditation certificate D-ZE-11052-02-01.

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Köln, 2023-10-24

Certification Body Safety & Security for Automation & Grid

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