



TÜVRheinland®

ZERTIFIKAT CERTIFICATE

EC Type-Examination Certificate

Reg.-No.: 01/205/5376.00/14

Product tested	Absolute Rotary Encoder with CANopen Safety Interface	Certificate holder	FRABA AG Carlswerkstr. 13c 51063 Köln Germany
Type designation	MCS-CSD1	Manufacturer	see certificate holder
Codes and standards forming the basis of testing	EN 61800-5-2:2007 EN ISO 13849-1:2008 + AC:2009 EN 62061:2005 + AC:2010 + A1:2013 IEC 61508 Parts 1-7:2010		
Intended application	<p>The Absolute Rotary Encoder measures the physical value of an angle position and transmits it as a safety digital position value via CANopen / CANopen safety (with protocol modifications) to other field devices (machinery applications).</p> <p>The encoder complies with the requirements of the relevant standards (Cat. 3 / PL d acc. to EN ISO 13849-1, SIL CL 2 acc. to EN 62061 / IEC 61508) and can be used in applications up to Cat. 3 / PL d acc. to EN ISO 13849-1 and SIL 2 acc. to EN 62061 / IEC 61508.</p>		
Specific requirements	The encoder has to be connected to a safety related controller comparing the position values of both channels. The instructions of the associated Installation and Operating Manuals (Leaflet, Datasheet, User Manual) shall be considered.		
It is confirmed, that the product under test complies with the requirements for machines defined in Annex I of the EC Directive 2006/42/EC.			
This certificate is valid until 2019-03-18.			

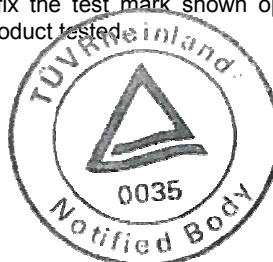


Functional Safety Type Approved

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The issue of this certificate is based upon an examination, whose results are documented in report-no.: 968/M 416.00/14 dated 2014-03-10.

The holder of a valid licence certificate for the product tested is authorized to affix the test mark shown opposite to products, which are identical with the product tested.



Berlin, 2014-03-18

Certification Body for Machinery, NB 0035

Dipl.-Ing. Eberhard Frejno