

**ZERTIFIKAT**

**Nr./No. 968/EZ 106.01/01**

**CERTIFICATE**

<b>Prüfgegenstand/Product tested</b>		<b>Hersteller/Manufacturer</b>	
GMR Phase IV Genius Modular Redundancy (TMR, Duplex and Simplex), fail safe and/or fault tolerant safety system, for safety applications including (but not limited to) ESD and fire & gas applications		GE Fanuc Automation North America, Inc. USA-Charlottesville, Virginia 22906 United States of America in cooperation with Silvertech International Plc UK-Horsham, West Sussex RH12 4PN United Kingdom	
<b>Typbezeichnung/Type designation</b>		<b>Verwendungszweck/Intended application</b>	
Genius Modular Redundancy Flexible Triple Modular Redundant System, consisting of GE Fanuc 90-70 controllers with Genius I/O		Safety related applications, where A) the safe state is the de-energised state, e.g. Emergency Shutdown Systems (ESD) B) the safe/demand state is the energised state, e.g. fire & gas applications (F&G)	
<b>Prüfgrundlagen</b> Codes and standards forming the basis of testing	DIN V 19250/05.94 DIN V VDE 0801/01.90 + A1 10/94 IEC 61508 (1 - 7)/2000 IEC 61131-2/2000 DIN EN 50178/04.98 EN 55011/91 (CISPR 11) IEC 61000-4-2, 3, 4, 5	IEC 60068-2-1, 2, 6, 14, 27, 30 EN 54-2/12.97 NFPA 72/96 DIN VDE 0116/10.89 NFPA 8501/97 NFPA 8502/99	
<b>Prüfungsergebnis</b> Test results	Suitable for safety related applications according to requirement classes up to 6 (DIN V 19250/05.94) and up to SIL 3 (IEC 61508) considering the specific configurations as detailed and reprinted in the GMR user manual.		
<b>Besondere Bedingungen</b> Specific requirements	The TÜV Guidance is contained in the user's manuals GFK 1277C (GMR) and GFK 1649 (F&G) and must be considered. For safety related applications modules from the list of approved modules (GFT307d) must be used.		

Der Prüfbericht Nr. 968/EZ 106.01/01 vom 2001-09-24 ist Bestandteil  
dieses Zertifikates.

Dieses Zertifikat ist nur gültig für Erzeugnisse, die mit dem Prüfgegen-  
stand übereinstimmen. Es wird ungültig bei jeglicher Änderung der  
Prüfgrundlagen für den angegebenen Verwendungszweck.

The test report No. 968/EZ 106.01/01 dated 2001-09-24 is an integral part  
of this certificate.

This certificate is valid only for products which are identical with the  
product tested. It becomes invalid at any change of the codes and  
standards forming the basis of testing for the intended application.