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COMPLIANCE

with IEC EN 61508

Certificate No.: C – IS – 183645 – 02

CERTIFICATE OWNER: GM International S.r.l.
Via San Fiorano, 70 – 20058 Villasanta (MI)

WE HEREWITH CONFIRM THAT
THE MODULES IN THE TABLE ENCLOSED TO THE PRESENT DOCUMENT

MEET THE REQUIREMENTS OF IEC EN 61508

(LOW DEMAND MODE OF OPERATION)

Examination result: The above described Modules were found to meet the standard defined requirements of the safety levels detailed in the following table (T-IS-183645-01 dated January, 22nd 2010) according to IEC EN 61508, under fulfillment of the conditions listed in the related Reports, mentioned in the same table, in their currently valid version, on which this Certificate is based

Examination parameters: Functional characteristics, reliability and availability parameters and functional safety management

Official Summary Table No.: T-IS-183645-01 Dated January 22nd, 2010

Expiry Date July, 30th 2013

IT IS TO BE INTENDED THAT THE ABOVE OFFICIAL SUMMARY TABLE IS AN INTEGRAL PART OF THIS DOCUMENT
THE PRESENT DOCUMENT SUBSTITUTES AND REPEALS THE DOCUMENT C-IS-183645-01.

Reference Standard IEC 61508 Part 1, 2, 4, 6, 7

Sesto San Giovanni, January, 22nd 2010



TÜV ITALIA Srl
Industry Service Division
Manager

Paolo Marcone



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SUMMARY TABLE T-IS-183645-01

	ITEM NAME	REPORT CODE	FINAL RESULTS (*)		
			T _{Proof}	Configuration	Allowed SIL
1.	D1014	R-IS-E-183645-01-D1014-Rev. 1	1 year	-	SIL3
			10 years	-	SIL2
2.	D1092	R-IS-E-183645-02-D1092-Rev. 2	7 years	ND	SIL3
			10 years	NE	SIL3
			20 years	NE or ND	SIL2
3.	D1093	R-IS-E-183645-03-D1093-Rev. 2	7 years	ND	SIL3
			10 years	NE	SIL3
			20 years	NE or ND	SIL2
4.	D1034	R-IS-E-183645-04-D1034-Rev. 1	1 year	-	SIL3
			10 years	-	SIL2

(*)Considering the products not contribute more than 10% of total SIF dangerous failure.





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	ITEM NAME	REPORT CODE	FINAL RESULTS		
			T _{Proof}	Configuration	Allowed SIL
5.	D1010S -054,-056,057	R-IS-E-183645-05-D1010S-Rev. 1	5 years	-	SIL2
			10 years	-	SIL1
6.	D1010	R-IS-E-183645-06-D1010-Rev. 1	7 years	S-Active	SIL2
			10 years	S-Active	SIL1
			5 years	S-Passive	SIL2
			10 years	S-Passive	SIL1
			7 years	D-Active	SIL2
			10 years	D-Active	SIL1
			5 years	D-Passive	SIL2
			10 years	D-Passive	SIL1
7.	D1020	R-IS-E-183645-07-D1020-Rev. 1	3 years	-	SIL2
			10 years		SIL1
8.	D1032	R IS E 183645-08-D1032-Rev 1	3 years	D	SIL2
			10 years	D	SIL1
			3 years	Q	SIL2
			10 years	Q	SIL1

(*) Considering the products not contribute more than 10% of total SIF dangerous failure.

T-IS-183645-01

NOTE: The present table is integral part of the Document: C-IS-183645-02

Date: January, 22nd 2010





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	ITEM NAME	REPORT CODE	FINAL RESULTS		
			T _{Proof}	Configuration	Allowed SIL
9.	D1033	R I S E 183645-09-D1033-Rev 1	5 years	D	SIL2
			10 years	D	SIL1
			5 years	Q	SIL2
			10 years	Q	SIL1
10	D1092-069	R I S E 188627-01-D1092-069-Rev1	10 years	NO-NC	SIL3
			20 years	NO-NC	SIL2

(*) Considering the products not contribute more than 10% of total SIF dangerous failure.





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FUNCTIONAL SAFETY ASSESSMENTS		
	REPORT CODE	FINAL RESULT
1	R IS 183645-11-Rev.1	Compliant to the standard for the following parts: <ul style="list-style-type: none">- Documentation (IEC EN 61508 Part 1 Chapter 5)- Management of functional safety (IEC EN 61508 Part 1 Chapter 6)- Functional safety assessment (IEC EN 61508 Part 1 Chapter 8)- Realization: E/E/PES safety lifecycle from 9.1 to 9.6 (IEC EN 61508 Part 2) for the all safety related modules object of this certificate.

