









COMPLIANCE

with IEC EN 61508

Certificate No.: C - IS - 204194 - 01

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-204194-01) 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-204194-01

Expiry Date

June, 7th 2013

IT IS TO BE INTENDED THAT THE ABOVE OFFICIAL SUMMARY TABLE IS AN INTEGRAL PART OF THIS DOCUMENT

Reference Standard

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

Sesto San Giovanni, June, 7th 2010

rüy II

Italia

TÜV ITALIA Srl Industry Service Division Director



SUMMARY TABLE T-IS-204194-01

	ITEM NAME	REPORT CODE	FINAL RESULTS (*)		
			T _{Proof}	Configuration	Allowed SIL
1.	D5090S_D5290S	R-IS-204194-01-Rev.2	10 years	NE	SIL3
1.	D5090S_D5290S	R-IS-204194-01-Rev.2	20 years	NE	SIL2
	D5091S_D5291S	R-IS-204194-02-Rev.1	6 years	ND relays and NO contacts	SIL3
2.			20 years	ND relays and NO contacts	SIL2
			10 years	NE relays and NC contacts	SIL3
			20 years	NE relays and NC contacts	SIL2
	D5014S_D5014D	R-IS-204194-03-Rev.1	1 year	Active input	SIL3
3.			10 years	Active input	SIL2
			1 year	Passive input	SIL3
			10 years	Passive input	SIL2

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



	ITEM NAME	REPORT CODE	FINAL RESULTS (*)		
			T _{Proof}	Configuration	Allowed SIL
4.	D5011S_D5011D	11D R-IS-204194-03-Rev.1	1 year	Passive input	SIL3
٦.			10 years	Passive input	SIL2
5.	D5034S_D5034D	R-IS-204194-04-Rev.1 1 year 10 years	1 year	NA	SIL3
J.			10 years	NA	SIL2
	D1044S		6 years	6 years 10 years 7 years Loop Powered	SIL2
6.			10 years		SIL1
0.			7 years		SIL2
			10 years		SIL1
	D1044D	R-IS-204194-05-Rev.1	6 years	Bus Powered –	SIL2
			10 years	Independent channels	SIL1
7.			10 years	Bus Powered – 1oo2 architecture	SIL3
			10 years	Loop Powered – 1002 architecture	SIL3

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



	ITEM NAME	REPORT CODE	FINAL RESULTS (*)		
			T _{Proof}	Configuration	Allowed SIL
	D5030S_D5030D		5 years	Maximum relay contact current is 4A	SIL2
8.			20 years		SIL1
0.			2 years	Maximum relay contact current is 100mA	SIL3
		R-IS-204194-06-Rev.1	20 years		SIL2
9.	D50010 D5001D	11-10-20+13+-00-11ev.1	2 years	NA -	SIL3
9.	D5031S_D5031D		20 years		SIL2
10.	D5032S_D5032D	2 DE022D	2 years	Maximum relay contact	SIL3
10.	D30323_D3032D		20 years	current is 100mA	SIL2
11.	D5049S_D1049S	R-IS-204194-07-Rev.1	12 years	Bus Powered / NE load	SIL3
11.			20 years		SIL2
12.	D5048S_D1048S		20 years	Loop Powered / NE load	SIL3
13.	D5020S_D5020D	_D5020D R-IS-204194-08-Rev.1	1 year	NA -	SIL3
13.	200200_200200		10 years		SIL2

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



	ITEM NAME	REPORT CODE	FINAL RESULTS (*)		
			T _{Proof}	Configuration	Allowed SIL
14.	D5290S/SA	R-IS-204194-01-Rev.2	10 years	NE -	SIL3
14.			20 years		SIL2
15.	D5290S-080		10 years (**)	NE	SIL3
16.	D5293S	D5293S R-IS-204194-15-Rev.1 D5294S	10 years		SIL3
10.			20 years	NE S	SIL2
17.	D5294S		7 years	NE	SIL3
17.			20 years		SIL2

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

(**) It is considered the product life time.



	FUNCTIONAL SAFETY ASSESSMENTS				
	REPORT CODE	FINAL RESULT			
1	R IS 183645-11-Rev.1	Compliant to the standard for the following parts: - 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.			