SAFETY COMPONENTS FOR MACHINERY

EC TYPE EXAMINATION CERTIFICATE

N° 0080. 5554.520.01.17.0065

In execution of directive 2006/42/CE concerning the harmonisation of Member States' legislation on machinery,

The Institut National de l'Environnement Industriel et des Risques (INERIS), a public industrial and commercial organisation, etablished by decree No. 90-1089 of 7 December 1990, listed in the Official Journal of the European Communities on 25 October 1995 with identification No. 0080,

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(IM1339AG 23/09/2014)

issues the present extension of EC type examination certificate for the following model:

Designation	:	Radio Emergency Stop safety function
Manufacturer	:	**JMei** **Chaussée de Rochefort, 123 -** **6900 Marloie (Belgique)**
Type	:	Emergency Stop safety function for RECB receiver with the folowwing emmiters :

- RCB90
- RCB3000
- RCB1000
- RCB700
- HELICE
- RCB6000 / RECB

Parc Technologique Alata BP 2 F-60550 Verneuil-en-Halatte
tél + 33(0)3 44 55 66 77 **fax** + 33(0)3 44 55 66 99 **internet** www.ineris.fr

Institut national de l'environnement industriel et des risques
Etablissement public à caractère industriel et commercial - RCS Senlis B 381 984 921 - Siret 381 984 921 00019 - APE 7120B

Version : Hardware / Firmware :

Produits	Hardware	Software
Emetteur		
RCB90	Ver3.10	Ver2.30
RCB3000	Ver2.30	Ver2.30
RCB1000	Ver2.30	Ver2.30
RCB700	Ver4.30	Ver2.30
HELICE	Ver4.30	Ver2.30
Récepteur		
RECB	Ver4.20	Ver2.30
RCB6000	Ver4.20	Ver2.30

EC TYPE EXAMINATION CERTIFICATE request by :

JMei
Chaussée de Rochefort, 123
6900 Marloie (Belgique)

This safety function, after examination and tests included in the following report DSC-17-142197-00824A of January 2017, are declared

- to comply with health and safety requirements of appendix 1 of the directive applicable for this type of safety device.

1. Functional Safety

The level of SIL, category, PL, SIL CL depends of the connecting schemes for the safety function as defined hereafter. The wiring certified configuration are identified in the safety manual and in the certification report DSC-17-142197-00824A defined previouslay.

In adition some command functions that are embedded in the product, are listed in the certification report but are not covered by the present EC type examination certificate.

2 configurations of the receiver are in the scope of the present certificate.

The **first configuration** with one receiver whose classification are defined after, according the the wiring schemes are defined in the instructions.

The safety function of the **first configuration** complies with functional safety levels and is declared classified for the emergency stop function as follows:

Standard: **EN ISO 13849-1** (December 2015)
Level of compliance: **Category 3 PLd**
With the actual environmental test reports

Standard: **EN ISO 13850** (November 2015)
Level of compliance: **Stop category 0**[1]

[1] This mode corresponds to the removal of power from the motor for the safety function, which are therefore allowed to freewheel

Standard:	**IEC 60204-1 (2005) + corrigendum 2010**
Level of compliance:	**Stop category 0**
Standard:	**NF EN 62061** (July 2005) + NF EN 62061/A1 (2013-05-10) + NF EN 62061/A2 (2015-12-25)
Level of compliance:	**SIL CL 2[2].**
Standard:	**EN 61508** (edition 2 April 2010)
Level of compliance:	**SIL 2**

The **second configuration** with two receiver whose classification are defined after, according the the wiring schemes are defined in the instructions.

The safety function of the **second configuration** complies with functional safety levels and is declared classified for the emergency stop function as follows:

Standard:	**EN ISO 13849-1** (December 2015)
Level of compliance:	**Category 3 PLe**
With the actual environmental test reports	
Standard:	**EN ISO 13850** (November 2015)
Level of compliance:	**Stop category 0**
Standard:	**IEC 60204-1 (2005) + corrigendum 2010**
Level of compliance:	**Stop category 0**
Standard:	**NF EN 62061** (July 2005) + NF EN 62061/A1 (2013-05-10) + NF EN 62061/A2 (2015-12-25)
Level of compliance:	**SIL CL 2[3].**
Standard:	**EN 61508** (edition 2 April 2010)
Level of compliance:	**SIL 2**

[2] EMC test compliant will SIL2 requirements of IEC 61326-3-2
[3] EMC test are not compliant will SIL3 requirements of IEC 61326-3-2 and the level is limited to SIL 2.

2. Safety for use

The regulations of use are detailed in the safety manuel referenced FG-NI-1A-Radiocommandes Safety integrated functions manual. This instruction notice defines the different wirings and all information necessary for the safe use of the Safety functions.

3. Validity

The present EC type examination certificate is valid up to 25 January 2022.

Verneuil-en-Halatte, 2017.01.25

Director of the Certifying Body,
By delegation
D. CHARPENTIER
Deputy Manager of Certification