



NVLAP ACCREDITED
NARTE Certified Engineer
Professional Engineer

Federal communications Commission
Equipment Approval Services, P.O. Box 358315
Pittsburgh, PA 15251-5315
Attention: Authorization & Evaluation Division

April 25, 2000

Re: Application for Certification of Johnson Controls Transmitter under 47CFR 15.231.
FCC ID: **CB2OHHL3**

Gentlemen:

On behalf of the applicant, Johnson Controls Interiors, LLC, please find attached the submittal materials for certification of the JCI Universal Garage Door Opener, Model CB2OHHL3 This generation of their Homelink® series is capable of learning the current garage door transmit frequencies from 288MHz through 420MHz with pulse modulation duty cycles from 30 through 80 percent.

Pursuant to 47CRF 0.459, Johnson Controls Interiors requests that these listed exhibits be held confidential.

Exhibit G	Theory/Description of Operation,
Exhibit H:	Circuit Block Diagrams
Exhibit I:	Schematics
Exhibit J:	Bill of Material, Parts List

Johnson Controls Interiors has invested considerable resources into developing this Homelink® series. Having the listed exhibits available to 'competition' would negate the advantage achieved in developing this product. Since their Homelink® III series transmitters will be a major product line for Johnson Controls Interiors, not protecting the details of the design will result in a financial hardship for the company.

The complete List of the Exhibits in this submittal package appears on Page 2 of this cover letter.

Your prompt consideration of this application for product certification will be greatly appreciated. Should you have any questions regarding the content of this report, kindly contact me.

Sincerely,

Ted Chaffee,
Technical Lab Manager
Narte Certified Engineer, #EMC-002025-NE
tel/fax: 616. 424.7014
email: tchaffee@ahde.com, or ahd@locallink.net

Table of Contents

Form 731, form 159 with payment

EXHIBIT A: Cover Letter / Table of Contents		Total Pages	2
EXHIBIT B: Statements of Attestation [2.911(d)]		Total Pages	3
Attesting to Accuracy of Data	Exhibit B, File "EXB_p1DataAttst.jpg"		
Public Notice 22504	Exhibit B, File "EXB_p1DataAttst.jpg"		
Power of Attorney	Exhibit B, File "EXB_p2PowrOAttrny.jpg"		
AHD Accreditation	Exhibit B, File "EXB_p3NVLAPCert.jpg"		
EXHIBIT C: Description of Product [2.1033(b6)]		Total Pages	1
EXHIBIT D: Product photos - exterior [2.1033(b7)]	Eight photos	Total Pages	9
EXHIBIT E: Product photos - Printed Circuit Board [2.1033(b7)]	Six photos	Total Pages	7
EXHIBIT F: ID Label / Location [2.925,2.926,2.1033(b2,7),15.19(a3)]		Total Pages	2
EXHIBIT G: Description of Operation [2.1033(b4)]		Total Pages	1
EXHIBIT H: Circuit Block Diagram [2.1033(b5)]		Total Pages	1
EXHIBIT I: Schematics [2.1033(b5)]	Exhibit I, File "EXI_Schematic.pdf"	Total Pages	1
EXHIBIT J: Parts List/Tune-up Information [2.1033(b5)]		Total Pages	2
Parts List	Exhibit J, File "EXJ_Parts.pdf"		
EXHIBIT K: Report of Measurements [2.1033(b6)]		Total Pages	37
Detailed Table of Contents	Exhibit K, Page 2		
Manufacturer/Applicant [2.1033(b1)]	Exhibit K, Page 4		
Measurement/Test Facility & Equipment	Exhibit K, Page 4		
Configuration/Setup [2.1033(b8)]	Exhibit K, Page 5		
Summary of Results	Exhibit K, Page 6		
Test Standards / Methods Used [2.1033(b6)]	Exhibit K, Page 7		
Test Methodology [2.1033(b6)]	Exhibit K, Page 7		
Test Data [2.1033(b6)]	Exhibit K, Page 14		
Level vs Supply Voltage [15.31(e)]	Exhibit K, Page 16		
Occupied Bandwidth	Exhibit K, Page 17		
Radiated Field Strength [15.231(b)]	Exhibit K, Page 19		
EXHIBIT L: Setup photos [2.1033(b8)]	Twelve photos	Total Pages	13
EXHIBIT M: RF Exposure Information [2.1093(c)]		Total Pages	1
EXHIBIT N: User's Manual		Total Pages	4