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Tài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER**

Bản quyền nội dung thuộc về công ty **Hanyoung Nux**

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# NOTICE OF COMPLETION AND AUTHORIZATION TO APPLY THE UL MARK



2022-11-30

HYUN-WOO JUNG  
HANYOUNG NUX CO LTD  
28, Gilpa-ro 71beon-gil, Michuhol-gu  
Incheon, 22121, KR

Your Reference: JUNG, HYUN-WOO  
Our Reference: File E171499, Volume 2  
Order: 14401256  
Project: 4790477681  
Project Scope: [E171499, NRNT2/8] Industrial Control Switch, Model HSR series / Basic

Dear Hyun-Woo Jung:

UL has completed the investigation under the above project and confirmed compliance of your product(s) with UL requirements. We appreciate that you have a choice of certification providers and thank you for choosing UL.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at the factory location(s) identified on the Authorization Page of UL File E171499, Volume 2. You are required to send a copy of this letter to all manufacturing locations authorized under UL File E171499, Volume 2.

The Follow-Up Services Procedure covering your product(s) will typically be provided by UL within 10 business days. Any information and documentation provided to you involving the UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Products that bear the UL Mark must be identical to those submitted to UL for evaluation and certification and must comply with the Follow-Up Services Procedure covering your product(s). Additional requirements related to the responsibilities of the Applicant and Manufacturer can be found under **Additional Resources** at <https://www.ul.com/fus>.

A UL certification is a valuable marketing tool meaning your product or company has successfully met stringent requirements. We encourage you to use your UL Mark and certification in your marketing activities. You can find information on how to accurately promote your UL certification at <https://www.ul.com/marketing>.

If you have any questions, please contact me or any of our customer service representatives. And, congratulations again on your achievement!

Sincerely,

JeeHwan Han  
Project Engineer  
UL Korea, Ltd.  
JeeHwan.Han@ul.com

Bruce A. Mahrenholz  
Director, Conformity Assessment Programs (CPO)  
UL LLC  
Bruce.A.Mahrenholz@ul.com

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**C E R T I F I C A T E**  
of Conformity  
EC Council Directive 2014/30/EU  
Electromagnetic Compatibility

**Registration No.:** AE 50568624 0001

**Report No.:** KR22DB2U 001

**Holder:** HANYOUNG NUX Co., Ltd.  
28, Gilpa-ro 71beon-gil, Michuhol-gu,  
Incheon, 22121  
Republic of Korea

**Product:** Semi Conductor Relay  
Solid State Relay

**Identification:** Type Designation : HSR-2abcde  
a = D or A;  
b = 10, 20, 30, 40, 50, 55 or 70;  
c = L or H; d = Z or R;  
e = S, T or N

Serial Number : prototype

**Tested acc. to:**  
EN 60947-4-3:2014  
EN 61000-3-2:2014  
EN 61000-3-3:2013

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

**Certification Body**



Date 20.12.2022

TagSun Park

**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**

# C E R T I F I C A T E



## of Conformity Low Voltage Directive 2014/35/EU

Registration No.: AN 50567855 0001

Report No.: KR2227WW 001

Holder: HANYOUNG NUX Co., Ltd.  
28, Gilpa-ro 71beon-gil, Michuhol-gu,  
Incheon, 22121  
Republic of Korea

Product: Semi Conductor Relay  
Solid State Relay

Identification: Type Designations : HSR-2abcde, HSR-3abcde  
a = D or A;  
b = 10, 20, 30, 40, 50, 55 or 70;  
c = L or H; d = Z or R;  
e = S, T or N

Serial No. : n.a. (prototype)

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body



A blue ink signature of "Young-Yul Hwang" over a horizontal line.

Young-Yul Hwang

Date 12.12.2022

## RoHS2 Compliance

Based on information generated by ourselves and also provided by our suppliers, HANYOUNG NUX (PT. Hanyoung Electronic Indonesia Co., Ltd.) can confirm that HSR-2 Series products are RoHS 2 compliant

### RoHS2 Compliance Statement

This statement certifies that HSR-2 Series products supplied by HANYOUNG NUX are fully RoHS compliant in accordance with EU RoHS Directive 2015/863/EU and the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directives). We hereby declare the following materials or substances are not contained therein (the material/substance is not found above the threshold level listed other than exemptions approved by RoHS). The restricted substances and their limits per the RoHS Directive 2015/863/EU Article 4, Annex II dated 4 June 2015 are as listed below :

1. Lead (Pb)	6. Polybrominated Diphenyl Ether (PBDEs)
2. Mercury (Hg)	7. Di-(2-Ethylhexyl) phthalate (DEHP)
3. Cadmium (Cd)	8. Benzyl butyl phthalate (BBP)
4. Hexavalent Chromium (Cr6+)	9. Di-butyl phthalate (DBP)
5. Polybrominated Biphenyls (PBBs)	10. Di-isobutyl phthalate (DIBP)

The maximum permitted concentrations are 0.1% or 1000 ppm (except for cadmium, which is limited to 0.01% or 100 ppm) by weight of homogeneous material. This means that the limits do not apply to the weight of the finished product, or even to a component, but to any single substance that could (theoretically) be separated mechanically—for example, the sheath on a cable or the tinning on a component lead.

08. Mei. 2024

Quality Manager



HANYOUNG NUX

28, Gilpa-ro 71beon-gil, Michuho

l-gu, Incheon, Republic of Korea.

PT. HANYOUNG ELECTRONIC INDONESIA

Jl Jangari RT 002/RW 003 Hegarmanah, Sukaluyu, Cianjur, Jawa-barat, Indonesia

Factory Manager



**HANYOUNG**  
PT. HANYOUNG ELECTRONIC IND.

<b>Model HSR-2 Series</b>	
HSR-2A10LRN, HSR-2A20LRN, HSR-2A30LRN, HSR-2A40LRN, HSR-2A50LRN, HSR-2A70LRN, HSR-2A10LZN, HSR-2A20LZN, HSR-2A30LZN, HSR-2A40LZN, HSR-2A50LZN, HSR-2A70LZN, HSR-2A10HZN, HSR-2A20HZN, HSR-2A30HZN, HSR-2A40HZN, HSR-2A50HZN, HSR-2A70HZN, HSR-2D10LRN, HSR-2D20LRN, HSR-2D30LRN, HSR-2D40LRN, HSR-2D50LRN, HSR-2D70LRN, HSR-2D10HRN, HSR-2D20HRN, HSR-2D30HRN, HSR-2D40HRN, HSR-2D50HRN, HSR-2D70HRN, HSR-2D10LZN, HSR-2D20LZN, HSR-2D30LZN, HSR-2D40LZN, HSR-2D50LZN, HSR-2D70LZN, HSR-2D10HZN, HSR-2D20HZN, HSR-2D30HZN, HSR-2D40HZN, HSR-2D50HZN, HSR-2D70HZN, HSR-2A10HRN, HSR-2A20HRN, HSR-2A30HRN, HSR-2A40HRN, HSR-2A50HRN, HSR-2A70HRN, HSR-2A20HRN (CHN), HSR-2A40HRN (CHN), HSR-2D10LZN (CHN), HSR-2A10HRN (CHN), HSR-2A30HRN (CHN), HSR-2A70HRN (CHN), HSR-2A70LRN (CHN), HSR-2D70LRN (CHN), HSR-2D70HRN (CHN).	HSR-2 SERIES