

**Certificate
of conformity with the following
European Directives**

Registered No.:

K13175/L22

Low-Voltage Directive 2014/35/EU

Reference of applicant

-

Date of application

15.06.2022

File reference

KP-22-306

Test report No.

K12951/L22

Date of issue

24.06.2022

This is to certify that the following products comply with the essential requirements (Annex 1) of the above mentioned European Directive and the following standard(s):

Product: Limit Switch

Type designation: HY-xM90yz
(x = L or Blank; x stands for operation LED option;
y = 2, 3, 4, 7, 8, 8L, 8R or 9; y stands for actuator type;
z = A, D or Blank; z stands for operation LED type;)

Applicant: HANYOUNG NUX CO., LTD.
#28, Gilpa-ro 71 beon-gil, Michuhol-gu, Incheon 22121, Korea.

Manufacturer: Same as above

Standard(s): EN 60947-5-1:2017 + AC:2020-05

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD GROUP. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Young-Cheon Kim
Product Certification Business Unit
TÜV NORD KOREA LTD.

TÜV NORD Korea Ltd.
20 Dogok-ro 3-gil, Gangnam-gu,
Seoul 06254, Korea
Tel.: +82-2-2188-0070
Fax: +82-2-556-3065
E-mail: tnk@tuv-nord.com



The CE marking can be affixed on the product if all relevant and effective Directives are complied with.



CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2214685-1
Report Reference E173671-20220331
Date 5-Oct-2023

#

Issued to: HANYOUNG NUX CO LTD
28, Gilpa-ro 71beon-gil, Michuhol-gu
Incheon, Incheon 22121
Republic of Korea

**This is to certify that
representative samples of**

**NKCR8 - Auxiliary Devices Certified for Canada -
Component**

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:

CSA C22.2 No. 60947-1, 2nd Ed., Issue Date: 2013-07-01,
CSA C22.2 NO. 60947-5-1-14, 1st Ed., Issue Date: 2014-03-01

Additional Information:

See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Deborah Jennings-Conner #
Deborah Jennings-Conner, VP Regulatory Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/> #

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2214685-1
Report Reference E173671-20220331
Date 5-Oct-2023

#

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
HY Series , HY, , followed by dash, maybe followed by L, followed by M90, followed by 2, 3, 4, 7, 8, 8L, 8R, 9 or 9R, followed by A or blank.	Auxiliary Devices

Deborah Jennings-Conner #
Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2215378-1
Report Reference E173671-20220331
Date 5-Oct-2023

#

Issued to: HANYOUNG NUX CO LTD
28, Gilpa-ro 71beon-gil, Michuhol-gu
Incheon, Incheon 22121
Republic of Korea

**This is to certify that
representative samples of**

NKCR2 - Auxiliary Devices - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 60947-1, 5th Ed., Issue Date: 2013-07-31, Revision Date: 2019-05-06, UL 60947-5-1, 3rd Ed., Issue Date: 2014-03-28

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Deborah Jennings-Conner #
Deborah Jennings-Conner, VP Regulatory Services

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2215378-1
Report Reference E173671-20220331
Date 5-Oct-2023

#

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
HY Series , HY, , followed by dash, maybe followed by L, followed by M90, followed by 2, 3, 4, 7, 8, 8L, 8R, 9 or 9R, followed by A or blank.	Auxiliary Devices

Deborah Jennings-Conner #
Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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안전인증서 Safety Certificate

안전인증번호: HU02119-20017A

(Certificate No.)

제조업자/수입업자명: PT.Hanyoung Electronic Indonesia
(Manufacturer/importer)

주 소: KP.NEGLASARI RT.01 RW.02 DESA HEGARMANAH KECAMATAN
(Address) SUKALUYU KABUPATEN CIANJUR INDONESIA

제 품 명: 전기기기용 스위치(자동복귀스위치)
(Product)

기본모델명: HY-M904
(Basic Model)

파생모델명 (Series Model):

HY-LM902	HY-LM903
HY-LM904	HY-LM907
HY-LM908	HY-LM909
HY-M902	HY-M903
HY-M907	이면기재

정격/안전기준상의 모델구분: 250 V~, 6 A
(Rating)

시험기준: K 61058-1(2007-12)
(Standard)

본 인증서는 제조국명: 인도네시아

제조업자명: PT.Hanyoung Electronic Indonesia

제조공장의 주소: KP.NEGLASARI RT.01 RW.02 DESA HEGARMANAH KECAMATAN
SUKALUYU KABUPATEN CIANJUR INDONESIA

의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We issue this Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2020년 06월 19일
(Year) (Month) (Day)



한국기계전기전자시험연구원
Korea Testing Certification
인증원장인

※ 이 인증서는 「전기용품 및 생활용품 안전관리법」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

- 전기용품의 안전관리부품 및 재질목록 (List of Critical Components)
- 기본모델 · 파생모델의 내용 (Descriptions of the basic and series model)
- 안전인증의 변경 현황 (Revisions Status)



HY-M908
HY-M909
PL-CA-12
PL-CA-D2

HY-M908R
HY-M909R
PL-CA-2
PL-CA-NJ

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안전인증번호: HU02119 -20017A
(Certificate No)

접수번호: 20200608 - 0059
(Receipt No)

1. 기본모델 · 파생모델의 내용(General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인증제품의 개요는 다음과 같다.
(Information on certified basic model product is as follow)

구분(Section)	내용 (Description)
용도 (Normal use)	전기기기용스위치(자동복귀스위치)
내부구조 (Internal construction)	첨부 안전관리 부품 및 절연 재질로 구성됨
외부구조 (External construction)	-
기타(Others)	기관이전: KTL에서 KTC(SU02033-7001)

1.2 전기용품의 표시: 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.
(Marking of KC Mark: Marking shall comply with the Article 20 of the Enforcement Rule of the
Electrical Appliances and Consumer Products Safety Control Act.)

1.3 등록모델 (Registered Models)

구분 (Class)	모델명 및 정격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	HY-M904 250 V~, 6 A	
파생모델 (Series model)	HY-M902 HY-M903 HY-M907 HY-M908 HY-M909 HY-LM902 HY-LM903	액류에이터의 형태 상이(로라프란자형) 액류에이터의 형태 상이(톱프란자형) 액류에이터의 형태 상이(가변로드형) 액류에이터의 형태 상이(로라레바형) 액류에이터의 형태 상이(스프링와이어형) 액류에이터의 형태 상이(로라프란자형-램프부착) 액류에이터의 형태 상이(톱프란자형-램프부착)

[서식 CP401-18-00]



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접수번호: 20200608 - 0059
(Receipt No)

	HY-LM904	몸체커버 재질상이 - 램프부착
	HY-LM907	액튜에이터의 형태 상이(가변 로드형-램프부착)
	HY-LM908	액튜에이터의 형태 상이(로라 레버형-램프부착)
	HY-LM909	액튜에이터의 형태 상이(스프링 와이어-램프부착)
	HY-M908R	액튜에이터의 형태 상이($\Phi 50$ 롤러 레버형)
	HY-M909R	OEM 상품, 액튜에이터의 형태 상이(우레탄 레버형)
	PL-CA-2	OEM 상품(HY-M908)
	PL-CA-12	OEM 상품(HY-M904)
	PL-CA-D2	OEM 상품(HY-M902)
	PL-CA-NJ	OEM 상품(HY-M909)

[서식 CP401-18-00]



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안전인증번호: HU02119 -20017A
(Certificate No)

접수번호: 20200608 - 0059
(Receipt No)

2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
접점블럭	GE 플라스틱.	SE1GFN2-780	NORYL 난연 V1, GLASS 20%	UL

[서식 CP401-18-00]



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안전인증번호: HU02119 -20017A
(Certificate No)

접수번호: 20200608 - 0059
(Receipt No)

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2020/06/19	기관이전(Certification Body Transferred)

4. 기타(Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.
- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제11조에 따라 안전인증이 취소될 수 있습니다.
If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.
- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.
- 4) 조건부 인증사항 (Conditional certification items):

[서식 CP401-18-00]





안전인증서
Safety Certificate

안전인증번호: HU02119-20028A

(Certificate No.)

제조업자/수입업자명: PT.Hanyoung Electronic Indonesia

(Manufacturer/importer)

주 소: KP.NEGLASARI RT.01 RW.02 DESA HEGARMANAH KECAMATAN
(Address) SUKALUYU KABUPATEN CIANJUR INDONESIA

제품명: 전기기기용 스위치(마이크로스위치)

(Product)

기본모델명: HY-M908L

(Basic Model)

파생모델명 (Series Model):

PL-CA-32

정격/안전기준상의 모델구분: 250 V~, 6 A

(Rating)

시험기준: K 61058-1(2007-12)

(Standard)

본 인증서는 제조국명: 인도네시아

제조업자명: PT.Hanyoung Electronic Indonesia

제조공장의 주소: KP.NEGLASARI RT.01 RW.02 DESA HEGARMANAH KECAMATAN
SUKALUYU KABUPATEN CIANJUR INDONESIA

의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We issue this Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2020년 06월 19일
(Year) (Month) (Day)



한국기계전자시험연수원
Korea Testing Certification



※ 이 인증서는 「전기용품 및 생활용품 안전관리법」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류

- 전기용품의 안전관리부품 및 재질목록 (List of Critical Components)
- 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
- 안전인증의 변경 현황 (Revisions Status)



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안전인증번호: HU02119 -20028A
(Certificate No)

접수번호: 20200608 - 0074
(Receipt No)

1. 기본모델 · 파생모델의 내용(General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인증제품의 개요는 다음과 같다.
(Information on certified basic model product is as follow)

구분(Section)	내용 (Description)
용도 (Normal use)	전기기기용스위치(마이크로스위치)
내부구조 (Internal construction)	첨부 안전관리 부품 및 절연 재질로 구성됨
외부구조 (External construction)	-
기타(Others)	기관이전: KTL에서 KTC(SU02033-12007)

1.2 전기용품의 표시: 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark: Marking shall comply with the Article 20 of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.)

1.3 등록모델 (Registered Models)

구분 (Class)	모델명 및 정격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	HY-M908L 250 V~, 6 A	
파생모델 (Series model)	PL-CA-32	모델명 상이

[서식 CP401-18-00]



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안전인증번호: HU02119 -20028A
(Certificate No)

접수번호: 20200608 - 0074
(Receipt No)

2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
-	-	-	-	-

[서식 CP401-18-00]



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안전인증번호: HU02119 -20028A
(Certificate No)

접수번호: 20200608 - 0074
(Receipt No)

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2020/06/19	기관이전(Certification Body Transferred)

4. 기타(Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.
- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제11조에 따라 안전인증이 취소될 수 있습니다.
If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.
- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.
- 4) 조건부 인증사항 (Conditional certification items):

[서식 CP401-18-00]





中国国家强制性产品认证证书

证书编号: 2012010305524752

委托人名称、地址

韩荣电子有限公司

JL. JANGARI RT. 03 RW. 02 HEGARMANAH KECAMATAN SUKALUYU KABUPATEN CIANJUR,
INDONESIA

生产者(制造商)名称、地址

韩荣电子有限公司

JL. JANGARI RT. 03 RW. 02 HEGARMANAH KECAMATAN SUKALUYU KABUPATEN CIANJUR,
INDONESIA

生产企业名称、地址

韩荣电子有限公司

JL. JANGARI RT. 03 RW. 02 HEGARMANAH KECAMATAN SUKALUYU KABUPATEN CIANJUR

产品名称和系列、规格、型号

限位开关

HY-M90, HY-LM90(型号解释详见附件); Ui:300V;Ith=6A;Ue=AC250V;Ie=6A;AC-15;IP67

产品标准和技术要求

GB/T14048.5-2008

上述产品符合强制性产品认证实施规则 CNCA-C03-02:2014 的要求,
特发此证。

发证日期: 2018年01月18日 有效期至: 2021年12月28日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书为变更证书, 证书首次颁发日期: 2012年02月02日

本证书的相关信息可通过国家认监委网站 www.cnca.gov.cn 查询



主任:



中国质量认证中心



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2012010305524752

NAME AND ADDRESS OF THE APPLICANT

HANYOUNG ELECTRONIC INDONESIA PT
JL.JANGARI RT.03 RW.02 HEGARMANAH KECAMATAN SUKALUYU KABUPATEN CIANJUR,
INDONESIA

NAME AND ADDRESS OF THE MANUFACTURER

HANYOUNG ELECTRONIC INDONESIA PT
JL.JANGARI RT.03 RW.02 HEGARMANAH KECAMATAN SUKALUYU KABUPATEN CIANJUR,
INDONESIA

NAME AND ADDRESS OF THE FACTORY

HANYOUNG ELECTRONIC INDONESIA PT
JL.JANGARI RT.03 RW.02 HEGARMANAH KECAMATAN SUKALUYU KABUPATEN CIANJUR

PRODUCT NAME, MODEL AND SPECIFICATION

Limit Switch

HY-M90, HY-LM90; Ui:300V; Ith=6A; Ue=AC250V; le=6A; AC-15; IP67

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T14048.5-2008

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO.CNCA-C03-02:2014).

Valid from: Jan.18,2018

Valid until: Dec.28,2021

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

Date of original issued: Feb.02,2012

The certificate information is available through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE



中国国家强制性产品认证证书

附录：

第1页共1页

证书编号：2012010305524752

纸号：1882994

型号的解释：

HY - □ 90 □

Action component type 动作构件类型

- 2 -Roller plunger
- 3 -Plunger
- 4 -Adjustable roller lever
- 7 -Adjustable rod
- 8 -Roller lever
- 9 -Spring wire lever
- 8L -Fork Roller lever
- 8R -Φ 50 Roller lever
- 9R -Urethane lever

M: 不带灯

LM: 带灯

限位开关

注：此附录与证书同时使用时有效。



主任：



中国质量认证中心