

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50332493

Blatt *Page*  
0001

Ihr Zeichen *Client Reference*  
H.H.J.

Unser Zeichen *Our Reference*  
01-WLP-15093922 001

Ausstellungsdatum *Date of Issue*  
31.03.2016 (day/mo/yr)

**Genehmigungsinhaber *License Holder***

YUEQING DAHE ELECTRIC CO., LTD.  
HUXI INDUSTRIAL ZONE,  
LIUSHI TOWN, YUEQING CITY,  
ZHEJIANG PROVINCE 325604  
P.R. China

**Fertigungsstätte *Manufacturing Plant***

YUEQING DAHE ELECTRIC CO., LTD.  
HUXI INDUSTRIAL ZONE,  
LIUSHI TOWN, YUEQING CITY,  
ZHEJIANG PROVINCE 325604  
P.R. China

**Prüfzeichen *Test Mark***



Geprüft nach *Tested acc. to*  
EN 61058-1:2002+A2

**Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)***

Lizenzentgelte - Einheit  
*License Fee - Unit*

**Switch (Switch)**

Type designation : HB (HBAN) 5

Rated Voltage : AC 125/250V 50/60Hz

Rated Current : 5A

Ambient Temperature Limits : T55

Number of Operating Cycles : 10 000

Degree of Protection : IP65 after installation

Circuit Disconnection : Micro-Disconnection

Pollution Degree : 2

Rated Impulse Withstand Voltage : 2 500V

The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.

5

**ANLAGE (Appendix): 1**

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

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

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Jie Zhang

YUEQING DAHE ELECTRIC CO.,LTD.  
Huang Haijing  
-  
HUXI INDUSTRIAL ZONE,  
LIUSHI TOWN, YUEQING CITY,  
ZHEJIANG PROVINCE 325604  
P.R. China

Date : 31.03.2016  
Our ref. : WLP 01  
Your ref.: H.H.J.

**Ref : R TÜV-Mark Approval**

Type of Equipment : Switch  
Model Designation : See Certificate  
Certificate No. : R 50332493 0001  
Report No. : 15093922 001

Dear Huang Haijing,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.


Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area.

With kind regards,

Certification Body

  
Jie Zhang

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

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



## of Conformity Low Voltage Directive 2006/95/EC

Registration No.: AN 50332494 0001

Report No.: 15093922 001

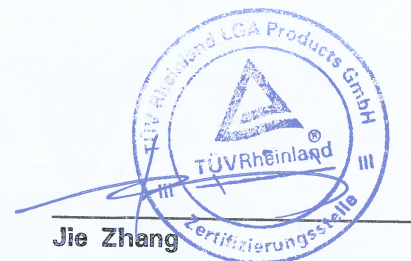
Holder: YUEQING DAHE ELECTRIC CO.,LTD.  
HUXI INDUSTRIAL ZONE,  
LIUSHI TOWN, YUEQING CITY,  
ZHEJIANG PROVINCE 325604  
P.R. China

Product: Switch  
(Switch)

Identification: Type Designation: HB  
(HBAN)  
Serial No. : Engineering sample  
Remark: Issued in conjunction with TÜV Rheinland license  
R 50332493 0001.

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 revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, 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 III of the Directive.

Certification Body



Date 31.03.2016

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

YUEQING DAHE ELECTRIC CO.,LTD.  
Huang Haijing  
-  
HUXI INDUSTRIAL ZONE,  
LIUSHI TOWN, YUEQING CITY,  
ZHEJIANG PROVINCE 325604  
P.R. China

Date : 31.03.2016  
Our ref. : WLP 01  
Your ref.: H.H.J.

**Ref : AN Certificate of Conf. Low Voltage D.**

Type of Equipment : Switch  
Model Designation : See Certificate  
Certificate No. : AN 50332494 0001  
Report No. : 15093922 001

Dear Huang Haijing,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

  
Jie Zhang

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

**Certificate No.** R50332493 0001

**Our Reference** 01-WLP-15093922 001

**Appendix No.** 1

**Constructional Data Form (CDF) for Switches for Appliances**

Page 1 of 2

**License holder:** YUEQING DAHE ELECTRIC CO.,LTD.

**Full address:** Huxi Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province 325604, P.R. China

**Factory :** YUEQING DAHE ELECTRIC CO.,LTD.

**Full address:** Huxi Industrial Zone, Liushi Town, Yueqing City, Zhejiang Province 325604, P.R. China

**Type or Model Number:** Switch

**Kind of device:** HB

Information/rated values for the switching element:

<b>Type Reference</b>		HB
Rated voltage / voltage range		125/250VAC
Nature of supply		AC
Frequency		50/60Hz
Rated current	<input checked="" type="checkbox"/> Substantially resistive load:	5A
	<input type="checkbox"/> Resistive or/and motor loads:	//
	<input type="checkbox"/> Resistive and capacitive loads:	//
	<input type="checkbox"/> Tungsten filament lamp load:	//
	<input type="checkbox"/> Declared specific load:	//
	<input type="checkbox"/> Current not exceeding 20mA:	//
	<input type="checkbox"/> Specific lamp load:	//
	<input type="checkbox"/> Other:	//
Number of operating cycles		10 000
Type and/or connection of switch		Two-way switch, single pole double load (2.3)
Disconnection (micro , full or electronic)		Micro
Contact material		AgNi <sub>10</sub>
Ambient temperature limits		T55
IP Code		IP65; after installation
Pollution degree		Degree 2
Rated impulse withstand voltage		2500V
Overvoltage category		II
Degree of protection against electrical shock		2

**TÜV Rheinland Group**
**License holder**

16.03.2016

Nancy Wang

Date

Signature

Name

Company Stamp and Signature

**Certificate No.** R50332493 0001

**Our Reference** 01-WLP-15093922 001

**Appendix No.** 1

**Constructional Data Form (CDF) for Switches for Appliances**

Page 2 of 2

Terminals /connection:

<b>Type Reference</b>	HB
Terminal designation	1;2;3;4;5;6
Type of Terminal/% copper	Solder terminal / 62%
Material/plating of the terminals	Copper alloy
Tightening torque (N•m)	//
Type of conductor	Prepared
Maximum conductor size (mm <sup>2</sup> )	1.0
Number of conductors per terminal	1

Part	Manufacturer	Material name	Glow wire temperature	PTI
Switch Base	NANJING LIHAN CHEMICAL CO LTD	PA66 A9705EP	Glow wire:850°C	175
	KINGFA SCI & TECH CO LTD	PA66-RPG25	Glow wire:850°C	175
Switch Housing Switch Locating Piece Switch Actuator Annular Actuator	TEIJIN LIMITED RESIN AND PLASTIC	PC LV-2250(##)(f2)	Glow wire:850°C	175
	BAYER MATERIALSCIENCE AG	PC 2805 + (z)(f1)	Glow wire:850°C	175
Push Plate Snap Ring	E I DUPONT DE NEMOURS & CO INC	POM 577	Glow wire:750°C	175

Insulation distances

Creepage (mm)	OC: 1.0	P-P: //	L-A: >5
Clearance (mm)	OC: 1.0	P-P: //	L-A: >3

OC: Open contacts; P-P: Pole to Pole; L-A: Live part to Accessible part (Actuating means)

TÜV Rheinland Group

License holder

16.03.2016

  
 Nancy Wang

Date

Signature

Name

Company Stamp and Signature