



VISION ■ 愿 景

Powering You Up For SUCCESS
携手打造成功

MISSION ■ 使 命

- 1 Work with all stakeholders to create solutions and values
与所有权益者共创有效方案及价值
- 2 Invest in our business and people to become the market leader
持续投资于业务及人力资源，确占市场领导地位
- 3 Provide superior quality on cost effective products and services with a focus on innovation and continuous improvement
致力于技术创新和持续改善，提供优质性价比的产品及服务

Introduction 前言

- In a challenging and dynamic environment, Defond has grown to be a great switch manufacturer in Hong Kong. Defond has become a reputed supplier of components for home appliances and various industrial applications since 1978.

Defond possesses the unique combination of electronic, electrical and mechanical expertise. Vertically integrated manufacturing technologies are applied in plastic molding, metal forming and plating, coil winding, through-hole and surface mount electronics assemblies. The company is committed to providing customers with a total solution from the initial design stages through to manufacturing, delivering outstanding product quality, fast turnaround time and competitive pricing.

在一个极具挑战但又充满活力的市场环境下，目前，德丰已成为香港最大的开关制造集团。从1978年开始，德丰为市场提供家用电器开关及多种工业配件而享有盛誉。

德丰拥有独特的电子元件、电器与机械上的专业技术。纵向整合制造技术广泛应用于塑胶模具、金属模型、电镀、线圈、通孔插装及表面贴装电子组装。德丰从专业设计到生产高质量产品、具有最快的周转期和价格优势，忠诚地为客户提供全方位解决方案。



Facilities 设施

Total Site Area : 300,000m²

Production Floor Space : 150,000m²

Accreditation : ISO 9001:2008
ISO 13485:2007
ISO 14001
ISO 17025
TS 16949
FDA-registered manufacturing site

Major Businesses : Switches (Mechanical and Electro-mechanical)
Power Tools Controls
Automotive Components
Electronic Manufacturing Services (EMS)
Fluid Control Components

Stamping Shop : 100 Presses
High Speed Precision Press
Multi-Slide Forming Machines
CNC Integrated Stamping/ Welding Station
Hydrocarbon de-oil cleaning line

Molding Shop : Injection Machines
Electrical Molding Machine
Vertical Molding Machine
Central Material Drying and Feeding System
Coordination Measuring Machine



Tool Shop : CNC High Speed Machining Centers
CNC High Speed Graphite Center
CNC Wire Cut Machines
CNC EDM
CNC Lathes (4-1/2 axis)
CNC High Precision Optical Profile Grinders
CNC High precision Surface Grinder
CNC High Precision Jig Grinder
CNC Precision Cylindrical Grinder
CAD/ CAM/ CAD System
Coordination Measuring Machine

Electronics Assembly : SMT Lines
Lead Free Wave Solder Lines
AOI, X-ray, ICT

Metrology Lab : CMM
X-Ray Scanners
Optical Measuring Systems
1000 x Optical Microscope
Goniophotometer
Spectroradiometer
Digital Hardness Meter (Portable type)

Test Lab : Safety Standard Approval Test Lab
- UL and DEMKO Certified
Electrical & Mechanical Test - Endurance Test
Environmental Test
EMC Lab (Pre-Compliance)
Photometric Lab

Assembly : Automatic, Semi Automatic, Manual Production Lines and
Cell Lines



History 发展历程

- 恒生泛珠三角环保大奖
- 广东制造业500强 (广东省制造业协会/社会科学院评选)
- UL亚太第一家UL61058 CTPD认可实验室
- 成立新厂房于东莞长安，扩展电子产品生产服务
- 全国质量活动优秀企业奖 (中国机械工业质量管理协会/机冶建材工会全国委员会/中国机械产业文化协会评选)
- 首次得到UL61058认证电动开关
- 取得 ISO 13485证书
- 取得TS16949证书
- 收购BJ Automotive GmbH
- 取得 ISO14001证书
- 收购意大利ODE有限公司
- 取得 ISO17025证书
- 收购德国Kautt & Bux公司
- 取得 ISO9000证书
- 开始PCBA为第三业务
- 推出电子产品生产服务
- 开始于中国东莞市洪梅镇成立首间厂房
- 首次获得UL认证开关
- 公司创始
- 2014 • Hang Seng Pan Pearl River Delta Environmental Awards
- 2013 • Top 500 Manufacturing Companies in Guangdong (Accredited by Guangdong Manufacturers Association / Academy of Social Sciences)
- 2011 • First Company acquired UL 61058 CTPD in Asia Pacific Regions
- 2011 • Set up EMS Factory in Chang An, Dongguan
- 2008 • Excellent Enterprise Quality Award in China (China Machine Building Quality Management Association / Metallurgical and Building Materials Workers' Union / China Association of Machinery Industry Culture)
- 2007 • First UL61058 approved power tool switches
- 2007 • ISO 13485 certified
- 2006 • TS16949 certified
- 2006 • Acquisition of BJ Automotive GmbH
- 2005 • ISO 14001 certified
- 2004 • Acquisition of ODE, S.r.l., Italy
- 2004 • ISO 17025 certified
- 2000 • Acquisition of Kautt & Bux, Germany
- 1996 • ISO 9000 certified
- 1996 • Start PCBA (printed circuit board assembly) as third product area
- 1995 • Started EMS (Electronics Manufacturing Service)
- 1984 • Started first factory in Hongmei, Dongguan
- 1980 • First UL approved switches
- 1978 • Company established

How to Select ? 如何选择开关?



What are your considerations?

To select an appropriate switch for a particular application, many different factors should be considered:

1) Switch type:

Which type of the switch you prefer? Slide or Rocker switch? In general, there are 7 types of switch: Slide, Rocker, Rotary, Micro, Push button, Keyboard and Toggle Switch. It is depended on the activating way of the appliance you chosen.

2) Safety Mark:

Choose UL, IEC or CQC marking? You should consider which market you sell to. See detail in "Safety Mark".

3) Current:

Low current or high current? You can choose the suitable current to match the Circuit / Current of your product. **Generally, there are 2 Kind of current control levels: Signal Level (below 100mA) and Power Level (equal or above 100mA).** For Signal Level current, some special designs of Contacts are the solution of this low current rating. A high rating switch maybe not suitable for a rating which is less than 100mA of circuit. Please contact us for detail.

4) Endurance:

How long of the appliance life? Basic 6000 (UL), 10000 (IEC) or longer cycles? You can choose the suitable endurance according to the product. See detail in "Meaning of Rating on the Switch".

5) Temperature:

Will the switch work at -25 to 55°C or more special temperature environment? You can choose the suitable temperature according to the rating. See detail in "Meaning of Rating on the Switch".

6) Dust and Water proof:

Will the switch contact water or will work at dusty area? You can choose the suitable dust and water proof level according to the IP mark. See detail in "Meaning of Rating on the Switch" and "Table A". * IP mark for ENEC or CQC only.

7) Glow Wire Test:

Do the plastic material of the switch require to pass GWT requirement? See detail in "Glow Wire Test".

你有什么考虑因素?

为特定的应用要求而去选择适合的开关需要考虑许多不同因素:

1) 开关类型:

您喜欢哪一种开关类型? 滑动开关或翘板开关? 在一般情况下, 有7种开关: 滑动、翘板、旋转、微动、按钮、琴键和拨动开关。这是取决于您选择的产品启动的方法。

2) 认证标志:

选择UL、IEC或CQC标志? 你应该考虑计划的销售市场。参见“认证标志”的细节。

3) 电流:

低电流或大电流? 你可取决于产品的实际电路/电流。**一般来说有两个电流级别: 信号级别(低于100mA)和功率级别(等于或超过100mA的)。**在信号级别下, 一些特殊设计的“触点”可以适合这些低额定的电流。一些较大规格也许并不适合开关规格是低于100mA的电路。详情请与我们联系。

4) 寿命:

产品的使用寿命要多长? 基本6000(UL)、10000(IEC)或更长周期? 你可以根据产品而选择合适的开关寿命。参见“认识开关的规格”的细节。

5) 温度:

开关将会工作在-25至55°C, 或更特别温度环境吗? 你根据开关规格可以选择合适的温度。参见“认识开关的规格”的细节。

6) 防尘和防水:

开关接触水或将工作在尘土飞扬的地方? 你根据IP标记标记可以选择合适的防尘和防水等级。参见“认识开关的规格”和“Table A”的细节。* IP标记只适用于ENEC或CQC。

7) 灼热丝试验

开关塑料需要GWT的要求? 参见“灼热丝试验”的细节。

How to Select ? 如何选择开关?

Meaning of Rating on the Switch :

► In IEC (ENEC) rating **10(6)A 250V~ 5E4 T125/55 μ IP30 APM-2116**

10(6) : The rated current for resistive load = 10A. The rated current for motor = 6A. The inrush current = 6 x the rated current for motor.

5E4 : The rated operating cycles = 50,000 cycles; If operating cycle rating is absent on the switch, default operating cycles = 1E4, 10,000 cycles.

T125/55 : T125 means the rated ambient temperature for the switch body is 125 °C, 55 means the rated ambient temperature for the actuating member.
* For T85 only, it means the rated ambient temperature is from 0 °C up to 85 °C.

* Optional mark :

μ : The mark is for micro-disconnection of switches. There should be “ μ ” mark on switch when the clearance and dielectric strength of disconnection can't comply with the requirement of basic insulation

IP30 : IP index. It complies protection against ingress of solid foreign objects and water (See Table A).

APM-2116 : Model Type No. on the IEC certificate.

* CQC rating refers to IEC rating.

► In UL rating **20A 125VAC, 10A 250VAC 1/2HP 125-250VAC T85**

1/2HP : For circuits for North American horsepower load (hp), the fractional hp value designation is followed by the symbol “hp”. 1/2HP means 1/2 Horsepower load. Please see Table B of the full load and overload-test current for a.c. and d.c horsepower.

T85 : The rated ambient temperature is from 0 °C up to 85 °C. If T mark is not given, for mechanical switches and electronic switches, the implied ambient temperature range is from 0 °C up to 55 °C.

Endurance cycle : If endurance cycle mark is not given, the implied endurance cycles is 6,000 cycles.

UL Catalogue No.: According to UL1054 standard, is not necessary to be marked it on the switch when it is impractical to mark.

认识开关的规格 :

► IEC (ENEC)认证的规格 **10(6)A 250V~ 5E4 T125/55 μ IP30 APM-2116**

10(6) : 括号前的10A值指的是开关能承受的额定电流，括号里的6A值是指开关能承受的马达负载的稳态电流，冲击电流为6倍稳态电流。

5E4 : 开关的使用寿命为50,000次，当没有注明寿命次数，默认为1E4，即10,000次。

T125/55 : T125是指开关装置于产品的内部所承受之基本温度上限。55是指开关装置于产品外露所承受之基本温度上限。

* 有些只展示T85即表示整个开关所承受的基本温度由0度至85度。

* 附加标签 :

μ : “微断开”标志，当开关断开电气间隙及高压在不能满足一个基本绝缘的要求时，就必须带有“微断开”标志。

IP30 : 防尘防水标志 (详见表A)。

APM-2116 : IEC认证的认证编号。

* CQC 认证规格参考 IEC 认证。

► UL认证的规格 **20A 125VAC, 10A 250VAC 1/2HP 125-250VAC T85**

1/2HP : 表示开关能过1/2HP的马力负载，具体马力负载的稳态电流及冲击电流对应关系见附表B。

T85 : 温度标志，表示开关能在0度至85度的环境中使用，但UL marking不一定会标出温度标志。 当没有注明时，默认为0度至55度。

操作寿命 : UL无寿命次数标志时，默认为6,000次。

UL的认证编号 : UL的认证编号不一定要标出。



Table A: Degree of protection against solid foreign objects and water:

Degree of protection against solid foreign objects		防尘标志
IP0X	Non-protected against solid foreign objects	不防尘
IP1X	Protected against solid foreign objects of 50 mm diameter and greater	防直径不小于50mm固体异物
IP2X	Protected against solid foreign objects of 12.5 mm diameter and greater	防直径不小于12.5mm固体异物
IP3X	Protected against solid foreign objects of 2.5 mm diameter and greater	防直径不小于2.5mm固体异物
IP4X	Protected against solid foreign objects of 1.0 mm diameter and greater	防直径不小于1.0mm固体异物
IP5X	Dust-protected	防尘的
IP6X	Dust-tight	尘密的
Degree of protection against ingress of water		防水标志
IPX0	Non-protected against ingress of water	不防水
IPX1	Protected against vertically falling water drops	防垂直滴水
IPX2	Protected against vertically falling water drops when enclosure tilted up to 15°	防外壳 15° 内倾侧，铅垂滴水
IPX3	Protected against spraying water	防淋
IPX4	Protected against splashing water	防溅
IPX5	Protected against water jets	防喷
IPX6	Protected against powerful water jets	防强烈喷水
IPX7	Protected against the effects of temporary immersion in water	防短时浸水

Table B: The Table of the Full Load and Overload Test Current for a.c. and d.c Horsepower:
马力负载的稳态电流及冲击电流对应关系

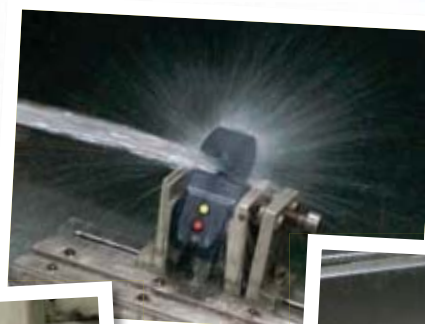
	AC 交流				DC 直流			
	Full-load(A) 满负载(安培)		Overload(A) 过载(安培)		Full-load(A) 满负载(安培)		Overload(A) 过载(安培)	
	125V	250V	125V	250V	125V	250V	125V	250V
1/4 HP	5.8	2.9	34.8	17.4	3	1.5	30	15
1/3 HP	7.2	3.6	43.2	21.6	3.8	1.8	38	19
1/2 HP	9.8	4.9	58.8	29.4	5.4	2.7	54	27
3/4 HP	13.8	6.9	82.8	41.4	7.4	3.7	74	37
1 HP	16	8	96	48	9.6	4.8	96	48

Safety Mark:

Generally, each country recognized their national safety mark only (For example, UL mark for US, ENEC mark for most Europe countries, and CQC for China) as their safety requirements. Unless your end product/appliance is planning to use a non-approval switch for specific market/application, the safety mark on Defond switch is able to help you to fulfill the national safety requirements for your end product/appliance.

认证标志：

基本上，每一个国家只会认可其国家的安全标志来满足其国家的安全要求，如去美国的选UL，去欧洲的选IEC，国内用CQC标志。除非你计划用非认证的开关用于特定市场/家电的产品外，德丰开关上的安全标志能够帮助你实现你的产品/家电的国家安全要求。



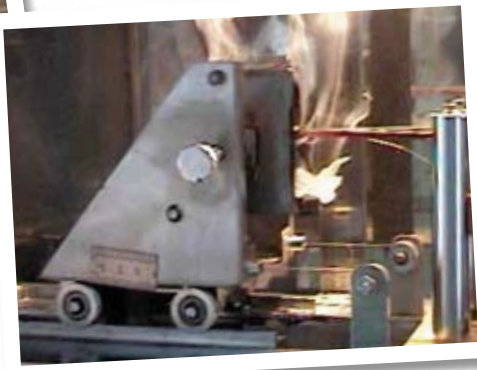
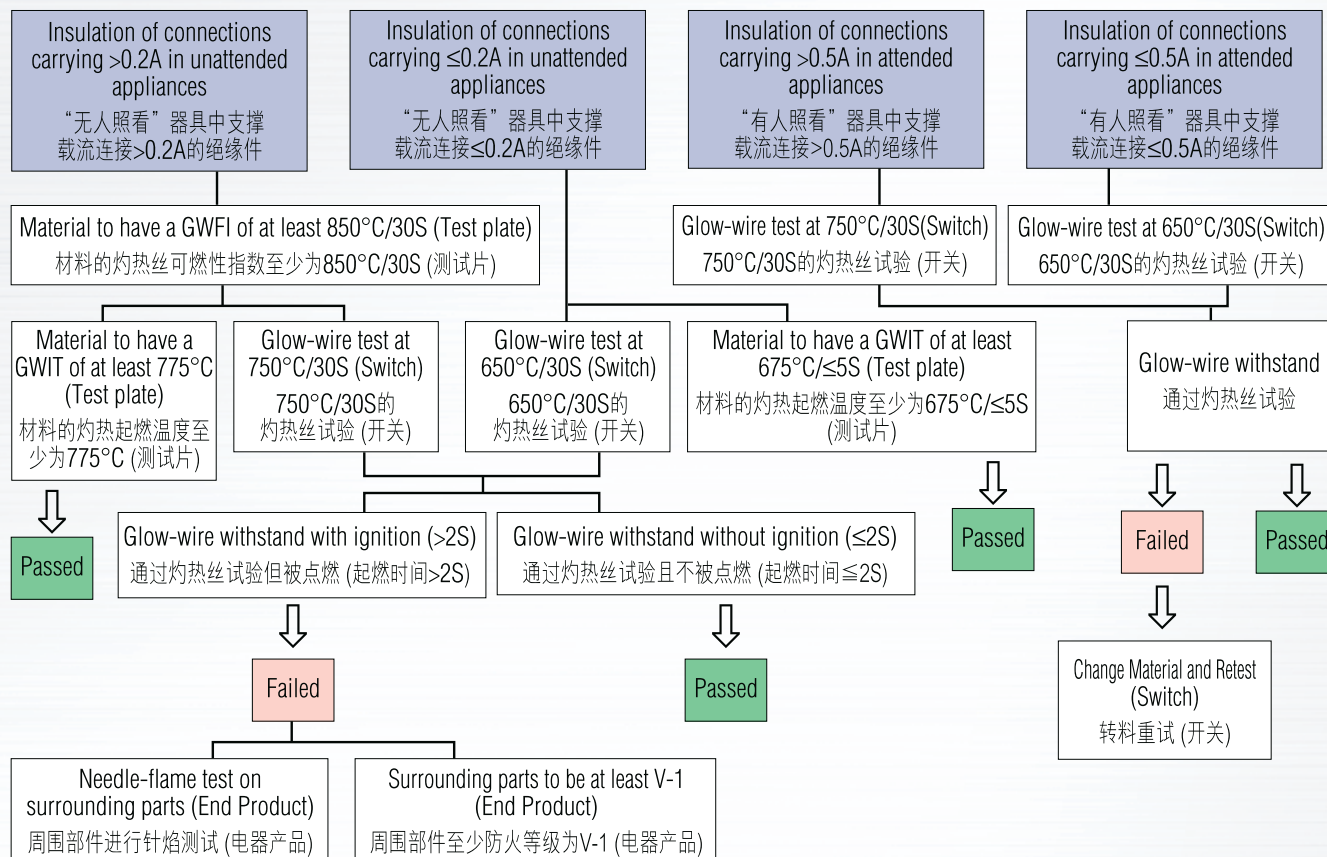
How to Select ? 如何选择开关?

Glow Wire Test(GWT):

The requirement of GWT should be selected reasonably for plastics. According to the below requirement from IEC60335-1, only for unattended appliances which carrying a current exceeding 0.2 A is required to withstand the GWT 750°C without ignition($\leq 2S$). Other appliances such as handheld hairdryer is just required to withstand the GWT 750/30S.

灼热丝测试：

要合理选择对塑胶材料GWT的要求。从以下IEC60335-1对塑胶材料的要求可知，只有无人照看且大于0.2A的器具才需要750°C/ $\leq 2S$ ，其余像手持式风筒等只需要过750°C/30S灼热丝测试即可。



Safety Marking 安全标识



All safety marking of European countries are harmonized into one ENEC marking

AENOR (Spain)	VDE (Germany)	MEEI (Hungary)
SGS Belgium - Division SGS CEBEC (Belgium)	OVE (Austria)	ITCL (Intertek) (United Kingdom)
IMQ (Italy)	BSI (United Kingdom)	EZÚ (Czech republic)
CERTIF (Portugal)	Electrosuisse (Switzerland)	SIQ (Slovenia)
KEMA (Netherlands)	Intertek Semko (Sweden)	TSE (Turkey)
SNCH (Luxembourg)	UL International Demko (Denmark)	TRLP (TUV) (Germany)
LCIE (NF mark) (France)	SGS Fimko (Finland)	TÜV SÜD PS (TUV) (Germany)
ELOT (Greece)	NEMKO (Norway)	PREDOM-OBR (Poland)



UL Recognized Component for both the United States and Canada



UL Recognized Component for Canada



UL Recognized Component for the United States



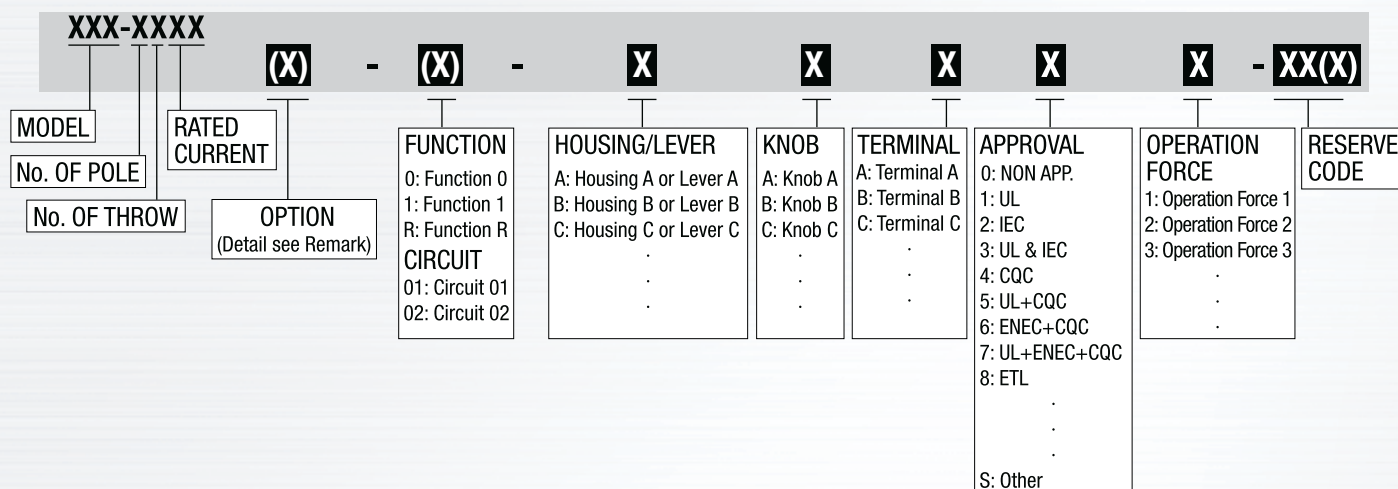
CQC Recognized Component and Product Mark for China

UL61058 status @ Defond

- The standard of UL1054 for Special Use Switches will be withdrawn on June 23, 2015. After that, only UL61058 will be used for the evaluation of switches.
- Existing certifications to UL 1054 will be allowed to continue to be certified and not be withdrawn after June 23, 2015
- Over 40 series of switch have been qualified UL61058 since 2007 that cover Home Appliances and Power Tool segments.
- Defond is the 1st company in Asia pacific regions obtained the CTDTP (Client Test Data Program) for Switch for Appliances - UL61058. That means UL will take Defond test report directly and Defond has the comparative advantage in obtaining new approval.
- 特殊用途开关标准UL1054将于2015年6月23日被撤销。之后，UL将只会用UL61058开关标准作评估。
- 现有已取得的UL1054认证将会继续容许被使用，同时不会在2015年6月23日被撤销。
- 自2007年以来，德丰已经有四十多种系列，涵盖家电和电动工具领域的开关，获得UL61058认证。
- 此外，德丰是亚太地区的第一家公司获得的UL61058 CTDTP（客户测试数据计划）。这意味着，UL将直接采取德丰测试报告，而德丰因此更具优势获得新的认证批准。



Standard Model Index 标准索引

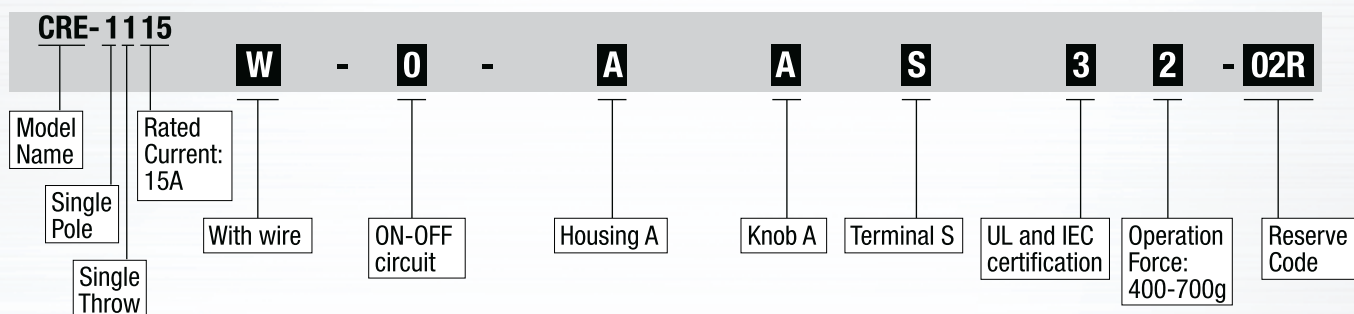


Remark:

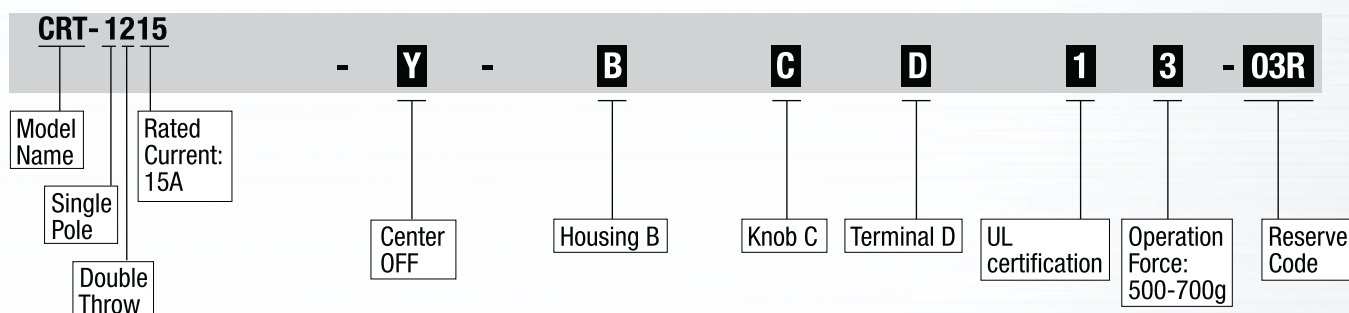
1. Item with bracket is optional

2. The first bracket indicates option of wire, disconnection type, proofed water or temperature etc.

Example A CRE - 1115W - 0 - AAS32 - 02R :



Example B CRT - 1215 - Y - BCD13 - 03R :



Slide Switch 滑动开关



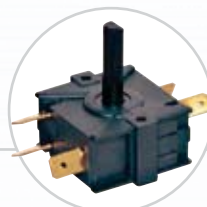
2-13

Rocker Switch 翘板开关



14-29

Rotary Switch 旋转开关



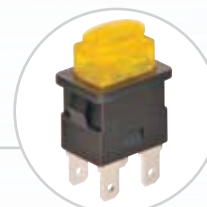
30-37

Micro Switch 微动开关



38-45

Push Button Switch 按钮开关



46-55

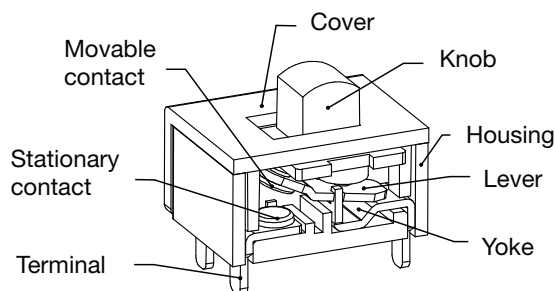
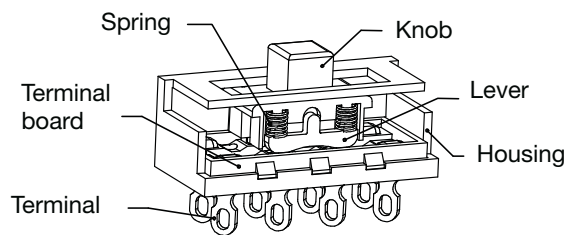
Keyboard Switch 琴键开关



56-60

SLIDE SWITCH

滑动开关

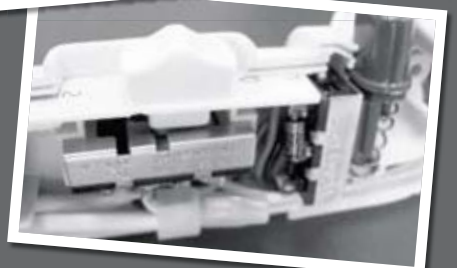


Switch Features 特征

1. Three kinds of contact type of Slide Switch: sledge type, lever type and spring arm type
滑动开关按触点接触方式分为雪撬式、翘板式和弹片式
2. Since the contacts of Sledge type switch are directly wiped each other, the life of Sledge type is relatively low (normally below 10,000 times) comparing with spring and lever type switch
雪撬式滑动开关触点之间直接摩擦，寿命一般为10,000次以下，而弹片式、翘板式所过电流及寿命较雪撬式好
3. A variety of circuit options
可以有较多电路供选择
4. Momentary options
可在两端档位做成回弹式功能

Tips 提示

1. Sledge type with high rating is not suitable for the current lower than 100mA.
大额定电流的雪撬式滑动开关不能用于小电流 (小于100毫安) 的电路。
2. Spring arm type is not suitable for vibration working area.
弹片式的滑动开关不能用于较大震动的电器产品。
3. Generally, a high rating switch maybe not suitable for a rating less than 100mA of circuit. Some special designs of contacts are the solution of a low current rating. Please contact us for detail.
大额定电流的开关不能用于小电流 (小于100毫安) 的电路，微小电流的触点应做特殊处理。如有类似的问题请联系我们。
4. The duration and temperature of welding and wave soldering are critical. Generally, the wattage of the soldering iron is 50~70W, the duration of welding is within 3 second, the duration of wave soldering is 3 ~ 4 second and the chamber temperature is below 260°C.
焊线或过波峰炉时必需注意温度及时间。焊线选用50~70瓦的恒温烙铁，上锡时间控制在3秒以内，过波峰炉时间控制在3~4秒，炉温控制在260度以下。



Plastic Case 塑胶外壳

ASH



4

CSJ



6

DSE



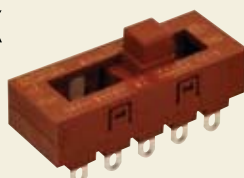
8

ASQ



4

CSK



6

DSN



9

ASR



5

CSQ



7

SSW



9

BSB



5

CSR



7

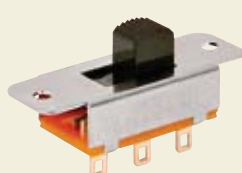
SSZ



10

Metal Case 金属外壳

DSA



11

DSG



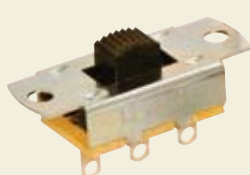
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DSQ



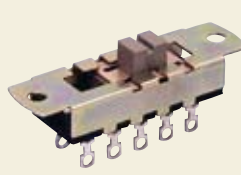
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DSB



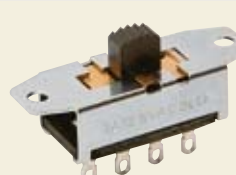
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DSH



12

DSU



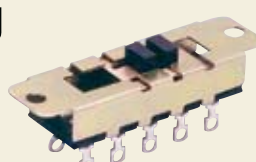
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DSC



11

DSJ



12

SSE



13

DSF



11

DSM



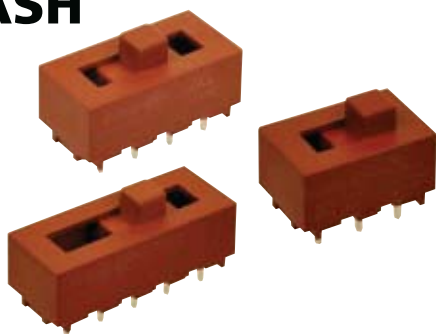
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SSM

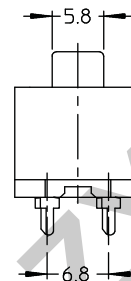
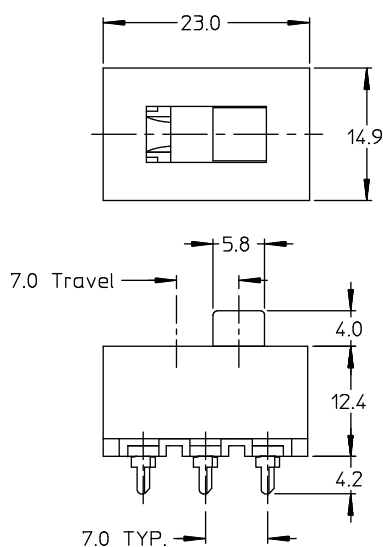


13

ASH



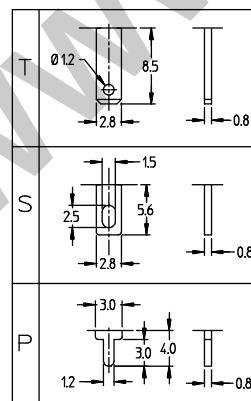
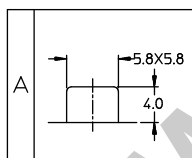
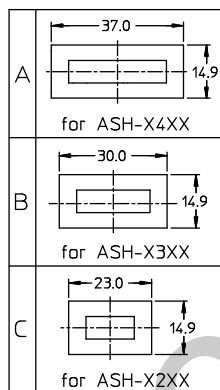
- single / double pole, 2/3/4 position
- ratings
 - 16A 125VAC, 8A 250VAC
 - 10(2)A 220/250VAC 1E4 T85
 - 10A 220/250VAC 1E4 T85
 - 8(3)A 220/250VAC 1E4 T125



ASH-XXXX

- **X** - **X** **X** **X** **X** **X** - XXX

	Single pole	Double pole
04	ASH-12XX	ASH-22XX
34	ASH-13XX	ASH-23XX
65	ASH-14XX	ASH-24XX

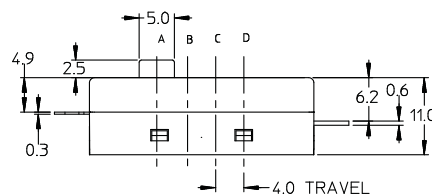
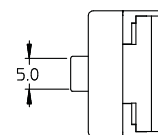
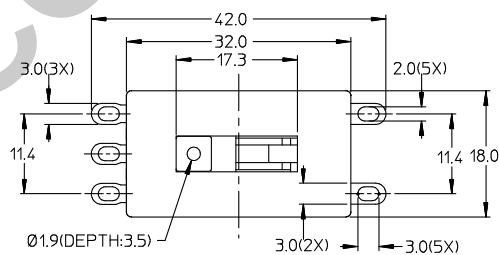


1 500±250g

ASQ



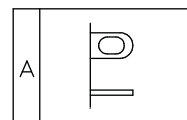
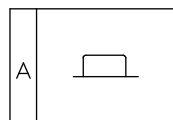
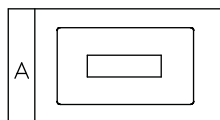
- double pole, multi-position
- ratings
 - 16A 125VAC, 8A 250VAC
 - 13A 125VAC, 6.5A 250VAC



ASQ-XXXX

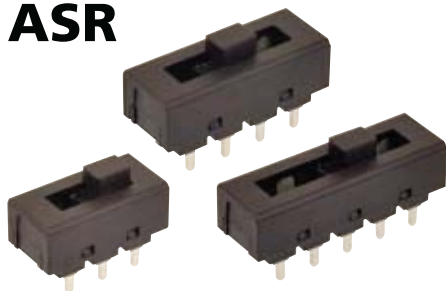
- **X** **X** **X** **X** **X** - XXX

POSITION	ELECTRIC CIRCUIT		
	1-C1	2-C1	3-C2
A	OFF	OFF	OFF
B	OFF	ON	ON
C	ON	OFF	ON
D	ON	ON	ON

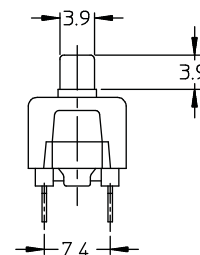
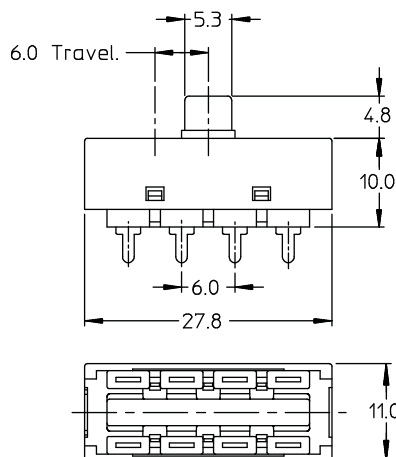


1 350~850gf

ASR



- single / double pole, 2/3/4 position
- ratings
 - 16A 125VAC, 9A 250VAC
 - 13A 125VAC, 6.5A 250VAC
 - 9(1)A 220/250VAC T85
 - 6(2.5)A 220/250VAC

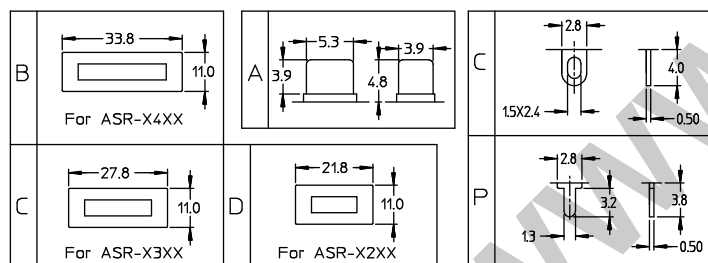


滑动开关

ASR-XXXX

- **X** **X** **X** **X** **X** **X** - XXX

Single pole	Double pole
ASR-12XX	ASR-22XX
ASR-13XX	ASR-23XX
ASR-14XX	ASR-24XX

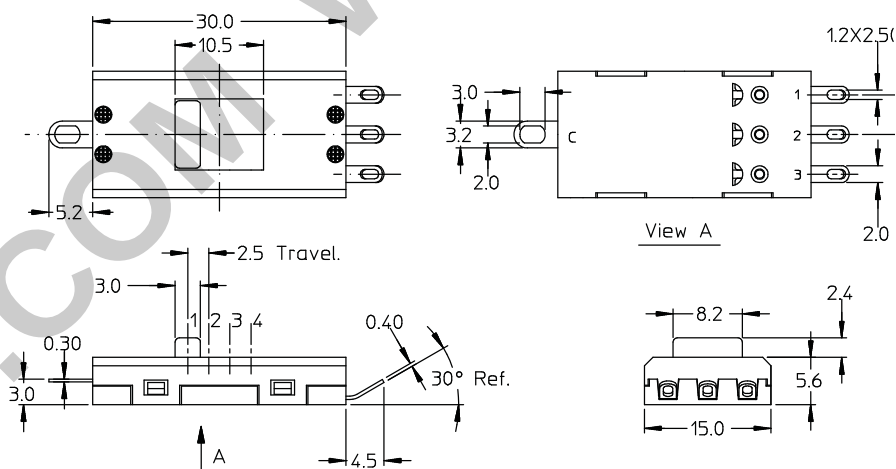


1 400~1000gf

BSB



- single pole, multi-position
- ratings
 - 13A 125VAC, 6.5A 250VAC T125
 - 13A 125VAC, 6.5A 250VAC
 - 6A 125VAC, 3A 250VAC T125
 - 8(2)A 250VAC μ T85

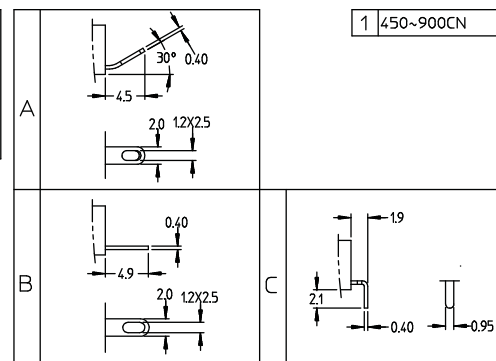


BSB-XXXX

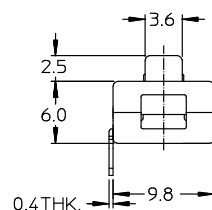
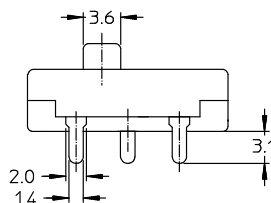
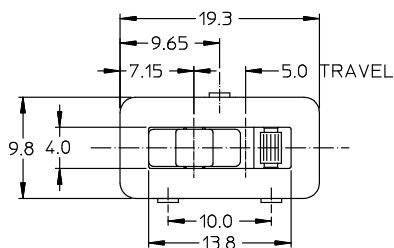
- **X** - **X** **X** **X** **X** **X** - XXX

01	<table><tr><td>1</td><td>OFF</td></tr><tr><td>2</td><td>OFF</td></tr><tr><td>3</td><td>C+2</td></tr><tr><td>4</td><td>C+1+2</td></tr></table>	1	OFF	2	OFF	3	C+2	4	C+1+2	02	<table><tr><td>1</td><td>OFF</td></tr><tr><td>2</td><td>C+2</td></tr><tr><td>3</td><td>C+1+2+3</td></tr><tr><td>4</td><td>C+1</td></tr></table>	1	OFF	2	C+2	3	C+1+2+3	4	C+1	06	<table><tr><td>1</td><td>OFF</td></tr><tr><td>2</td><td>C+1</td></tr><tr><td>3</td><td>C+1+2</td></tr><tr><td>4</td><td>C+1+2+3</td></tr></table>	1	OFF	2	C+1	3	C+1+2	4	C+1+2+3	07	<table><tr><td>1</td><td>OFF</td></tr><tr><td>2</td><td>C+1</td></tr><tr><td>3</td><td>C+2+3</td></tr><tr><td>4</td><td>C+3</td></tr></table>	1	OFF	2	C+1	3	C+2+3	4	C+3
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013	<table><tr><td>1</td><td>C+1</td></tr><tr><td>2</td><td>C+1+2+3</td></tr><tr><td>3</td><td>C+1+2</td></tr><tr><td>4</td><td>OFF</td></tr></table>	1	C+1	2	C+1+2+3	3	C+1+2	4	OFF	014	<table><tr><td>1</td><td>C+1</td></tr><tr><td>2</td><td>C+1+2+3</td></tr><tr><td>3</td><td>C+2</td></tr><tr><td>4</td><td>OFF</td></tr></table>	1	C+1	2	C+1+2+3	3	C+2	4	OFF	021	<table><tr><td>1</td><td>C+1+2+3</td></tr><tr><td>2</td><td>C+1+2</td></tr><tr><td>3</td><td>C+1</td></tr><tr><td>4</td><td>OFF</td></tr></table>	1	C+1+2+3	2	C+1+2	3	C+1	4	OFF										
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1 450~900CN



CSJ



- single pole, 2/3 position

- ratings

- 8A 125VAC, 4A 250VAC
6A 125VAC, 3A 250VAC



- 4A 250VAC T85 for CSJ-13AA
3(1)A 250V 5E4 T85 for CSJ-12AA

CSJ-XXXX

-

X

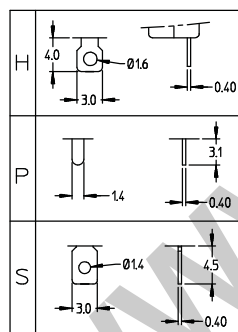
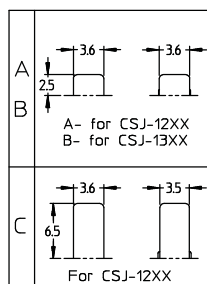
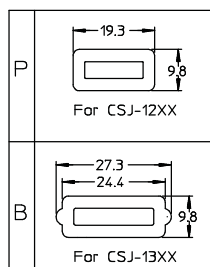
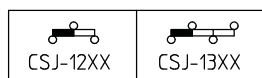
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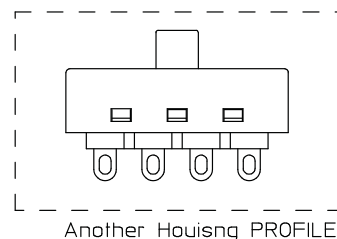
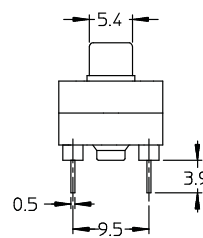
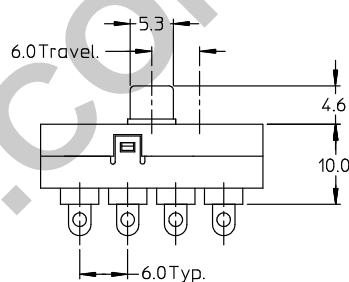
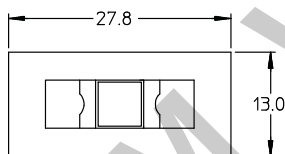
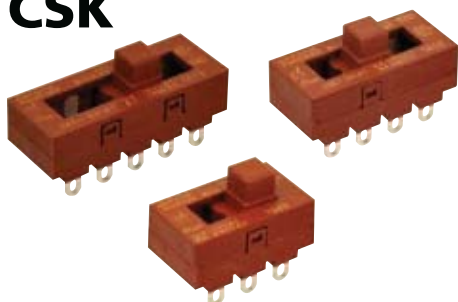
X

- XXX



1	250~500g
2	250~550g

CSK



Another Housing PROFILE

- single / double pole, 2/3/4 position

- ratings

- 16A 125VAC, 8A 250VAC T85
13A 125VAC, 6.5A 250VAC T85



- 10(1)A 230/250VAC T85
9.1(1)A 230/250VAC T85
8(1)A 230/250VAC T85
6(1)A 230/250VAC T85

CSK-XXXX

-

X

X

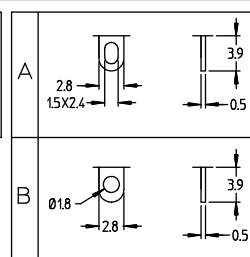
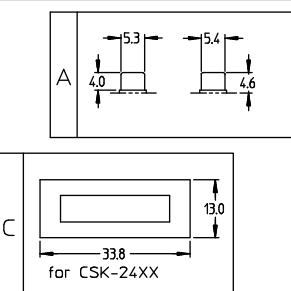
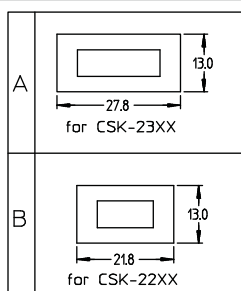
X

X

X

- XXX

Single pole	Double pole
 CSK-12XX	 CSK-22XX
 CSK-13XX	 CSK-23XX
 CSK-14XX	 CSK-24XX



1	300~650g
2	600~1200g
3	650~200g