Merchant Corporation Ltd.

SWITCH ON THE BRIGHTEST IDEAS

CORPORATE BROCHURE VOLUME 13

ISO 14001:2004

ISO 9001:2008
20001881 QM08

QMS
CM 028

Copyright 2016 Merchant Corporation Ltd. All Rights Reserved.

Merchant Corporation Ltd.

SWITCH ON THE BRIGHTEST IDEAS

CORPORATE BROCHURE
Volume 13

Introduction

MERCHANT is a switch and socket manufacturer and exporter with factory in Dongguan, China and head office in Hong Kong. Our main products include: Rocker switch, Rotary switch, Slide switch, Micro switch, Push switch, AC socket & receptacles, AC travel adaptor, Indicator lamp etc. Apart from this, we also provide value added services for customers. e.g. PCBA, wiring and harness.

Most of our products have been certified with international safety approvals e.g. UL, c-UL, ENEC, KEMA, CCC, CQC, KC, PSE, ETL,CE and CB. In addition, our quality system has been registered to the ISO 9001:2008 by Underwriters Laboratories Inc. and accredited by JAB. We also acquired the ISO14001 certification by CQC.

Meanwhile, we put a lot of efforts on R&D and emphasize on new product development. With more than 20 years experience, reliable quality, service satisfactory and prompt delivery are guaranteed.

All of our products have been tested and certified with RoHS (Restriction of the use of certain Hazardous Substances) directive and REACH (Registration, Evaluation, Authorisation and Restriction of Chemical substances) directive.

Merchant's History

1991 Formed sales and marketing office in Hong Kong and concentrated in the switches and AC socket for the electrical appliances market.
1992 Set up sales office and warehouse in Dongguan, China. Prepared for production facilities and future expansion.
1995 Established Merchant Corporation Ltd. in Hong Kong.
1997 China factory in Changan, Dongguan completed.
1998 Testing and production facility in China factory approved by UL, VDE and KEMA. Our products accredited with UL, c-UL, ENEC, KEMA, VDE & CB.
1999 An expert tooling, R&D dept. was set up in China factory. Mn becomes the universal registered trade mark of our products.
2000 The quality system of our H.K. headquarter and China factory has been registered by UL to the ISO 9002 standard. New products also accredited with Demko, Nemko, Semko & Fimko. Our test lab has been awarded with the Certification of Qualification for the Underwriters Laboratories Inc. (UL) Client test Data Program.
2001 New factory in Changan Dongguan completed. Production facilities increased.
2002 Products are certified by CSA.
2003 Registered by UL to ISO 9001:2000.
2004 Our products have been tested and certified by SGS to comply with the new RoHS requirements.
2005 Products are certified by CCC & CQC.
2006 Production area and capacity have been further increased.
2007 Awarded with ISO14001:2004.
2008 Products are certified by EK & PSE.
2009 Awarded ISO14001:2004 certification by CQC.
2011 Products are tested and approved according to UL61058 standard.
2012 Products are certified by ETL.

介紹

華天國際企業有限公司是一間專業的開關制製造公司。
本公司在東莞自設廠房及生產線，生產及出口的產品包括：翹板開關，滑動開關，旋轉扭制，微動開關，推制電源開關，電源插座，轉換插座及指示燈。
本公司的產品已經通過國際安全標準測試，如 UL, c-UL, ENEC, KEMA, CCC, CQC, KC, PSE, ETL, CE 及 CB。此外，本公司的品質及管理系統得到美國安全檢測實驗室公司（UL）審核為符合ISO 9001:2008的標準，並受到日本的JAB測試中心認可。與此同時，本公司更獲得CQC公司頒發ISO14001認証。
我們致力於新產品的研究與開發，擁有超過20年經驗，並以保持產品質量，以客為尊，準時交貨及完善的售後服務為本公司的宗旨。
本公司各標準產品都經過測試和認證，符合歐州的環保條款 RoHS (Restriction of the use of certain Hazardous Substances) directive 和 REACH (Registration, Evaluation, Authorisation and Restriction of Chemical substances) directive。

歷史

1991 於香港成立銷售及市場部門，主力發展開關制及AC插座之電器業市場。
1992 於中國東莞市設立銷售處及倉庫，為生產設施及未來擴展作好準備。
1995 於香港正式成立華天國際企業有限公司。
1997 中國東莞市長安鎮廠房落成。
1998 中國廠房之測試及生產設施獲取UL、VDE及KEMA認可。而我們的產品則獲得UL、c-UL、ENEC、KEMA、VDE及CB認可。
1999 中國廠房成立了產品開發部及模具部。Mn 成為本公司產品之國際註冊商標。
2000 香港總部及中國廠房合符ISO 9002標準。新產品亦獲取 Demko、Nemko、Semko及Fimko認可。
2001 中國東莞市長安鎮之新廠房落成。新增了更多生產設施。
2002 產品獲CSA認證。
2003 註冊ISO9001:2000。
2004 我們的產品通過SGS測試及認証，合符新RoHS之要求。
2005 產品獲CCC及CQC認証。
2006 生產面積及生產力進一步擴展。
2007 榮獲ISO14001：2004認証。
2008 產品獲韓國EK及日本PSE認証。
2009 榮獲CQC頒發的ISO14001：2004認証。
2011 產品獲美國UL61058規格認証。
2012 產品獲美國ETL認証。

Factory

R & D Dept

Mould Making

Printing Room

Testing Room

Unternehmen

MERCHANT ist Hersteller und Exporteur von elektrotechnischen Bauteilen mit der Hauptverwaltung in Hong Kong und der Produktionstätte in Dongguan/China.
Gefertigt werden vor allem Gerateschalter aller Art wie Wippenschalter, Schiebeschalter, Drehschalter und Drucktastenschalter, Mikroschalter, Geratesteckdosen, Adapter, Anzeigelampen etc. Alle Produkte sind nach internationalen Normen entwickelt und besitzen alle wesentlichen Approbationen wie UL, c-UL, ENEC, KEMA, **CCC, CQC, KC, PSE, ETL, CE** und CB. Selbstverständlich entsprechen die verwendeten Werkstoffe den aktuellen RoHS-Vorschriften, wie eine Prüfung durch das SGS-Testlabor bestätigt hat. Das Qualitätssystem ist zertifiziert nach ISO 9001:2008 durch Underwriters Lab. Inc. und JAB akkreditiert. **Und wir wurden kürzlich durch CQC ebenfalls gemäß ISO 14001 zertifiziert.**
Die Entwicklung neuer praxisgerechter Produkte wird auch in Zukunft eine wesentlicher Schwerpunkt bei **MERCHANT** sein .Daneben werden die besonderen Stärken des Unternehmens - zuverlässige Qualität, termingerechte Lieferungen, besonderer Service-weiterhin optimiert.
Unsere Produkte sind kuerzlich vom SGS Testlabor geprueft und hinsichtlich der neuen RoHS Vorschriften zertifiziert.

Geschichte

1991 Gründung des Verkaufs- und Marketingbüros in Hong Kong für den Schalter- und Steckdosenmarkt für Elektrogerate.
1992 In Dongguan/China werden ein Verkaufsbüro mit Lager eingerichtet. An diesem Standort, der gute Möglichkeiten für die weitere Expansion bietet, soll zukunftig auch die Produktion stattfinden.
1995 Grundung der Merchant Corp. Ltd. in Hong Kong.
1997 Vollständige Inbetriebnahme der Produktionsanlagen in Changan, Dongguan/China.
1998 Zertifizierung der Fertigung und der Prüfeinrichtungen durch UL, VDE und KEMA. und Approbation der Produkte durch UL, c-UL, ENEC, KEMA, VDE und CB.
1999 Gründung einer leistungsfähigen R & D Abteilung in Dongguan. Mn wird als internationaler Markenname eingetragen.
2000 Zertifizierung des Qualitätsystems der Haupverwaltung sowie der Produktion durch UL nach ISO 9002. Approbation neuer Produkte durch Demko, Nemko, Semko und Fimko.
2001 Umzug in die modernere und erweiterte Produktion in Changan, Dongguan.
2002 Zertifizierung der Produkte durch CSA.
2003 Registrierung durch UL für ISO 9001:2000 durch UL.
2004 Das SGS-Testlabor bestätigt die RoHS-Konformität für Merchant Produkte.
2005 Zertifizierung der Produkte durch CCC & CQC.
2006 Weitere Expansion der Produktbereiche und-kapazitäten.
2007 Zertifiziert nach ISO 14001:2004.
2008 Zertifizierung der Produkte durch EK & PSE.
2009 ISO 14001: 2004 - Zertifizierung durch CQC.
2011 Merchant-Schalter wurden nach UL61058-Standard zertifziert.
2012 Zertifizierung der Produkte durch ETL.

Plastic Injection

Assembly Line

QA Dept

Metal Stamping

紹介:

MERCHANTは海外企業(欧、米、日・・・・・・など)及び中国、香港企業に対する電子部品の輸出専門商社として設立されました。(中国にも専門工場を設立されました。)
業務内容:ロック・スイッチ(Rocker switch)、ロータリー・スイッチ(Rotary switch)、スライド・スイッチ(Slide switch)、マイクロ・スイッチ(Micro switch)、プッシュ・スイッチ(Push switch)、ACソケット(AC socket)、レセプタクル (receptacles)、ACトラベル・アダプター(AC travel adaptor) インジケータ・ランプ(Indicator lamp)など。
国際安全認可:UL, c-UL, ENEC, KEMA, CCC, CQC, KC, PSE, ETL, CE and CB.
品質管理認可:ISO 9001:2008 by Underwriters Laboratories Inc. and accredited by JABの認可も取得されました。
品質は設計から作り込む当社のR & Dは20年の経験な専門技術で推進しているため、構造設計、品物の製作各方面で厳しい管理を実施しています。
「品質」、「サービス」、「効率」を提供してまいります。
また、私どもはCQCより、ISO14001に認証されています。
MERCHANTは専門技術、高品質の製品をより低価額でしかもGOODサービス、効率を提供してまいります。
本社の製品は、RoHSとREACHの要件によってテストを行い、公認されました。

歴史:

1991 香港に市場と営業の事務所を設立されました。
当時の営業は電子市場用スイッチ(switch)及びACソケット(AC socket)の業務スタート。
1992 中国東莞に営業部、倉庫を設立されました。
1995 Merchant Corporation Ltd. 香港に設立されました。
1997 中国東莞工場すでに設立を完全しました。
1998 中国工場は国際認可を取得されました。(UL, VDE, KEMA)製品の認可はUL, c-UL, ENEC, KEMA, VDE & CB…などです。
1999 金型とR&D開発し、製品にも Mn のtrade mark特許を取得。
2000 香港の本社と中国工場にもISO9002のUL標準を取得。新規の製品はすべてDemko, Nemko, Semko & Fimkoの国際認可標準を得ました。
2001 東莞Changanの新工場は完成しました。生産設備も増強しました。
2002 製品はCSAによって認定されたものです。
2003 UL によってISO9001:2000に登録されたものです。
2004 本社の製品はプロダクトはSGSによってRoHSの新しい条件に従うためにテスト。
2005 製品がCCCとCQC認証取得。
2006 生産力とキャパシティーをもっと増やしました。
2007 ISO14001:2004認証取得。
2008 製品がEK & PSE認証取得。
2009 ISO14001:2004認証取得。
2011 スイッチはUL61058規格で認証取得。
2012 製品がETL認証取得。

ISO 14001:2004

ISO 9001:2008
20001881 QM08

QMS
CM 028

Content

Quality Approval 2

Rocker Switch

SR-01 3
SR-03 4
SR-05 5
SR-06 6
SR-06NR 7
SR-08 8
SR-11 9
SR-12 10
SR-13 11
SR-15 12
SR-20 13
SR-21 14
SR-22 15
SR-23 16
SR-32 17
SR-38 18
SR-55 19
SR-68-1 20
SR-68-2 21
SR-68-3 22
SR-72 23
SR-90 24
SR-93 25
SR-95 26
SR-96 27
SR-98 28
SR-99 29

Rotary Switch

ST-100 30
ST-700 31
ST-701 32
ST-702 33
ST-800 34
ST-902 35
ST-902 (Circuit Options) 36

Push Switch

SB-17 37
SB-25 38
SB-30 39
SB-31 40
SB-35 41

SB-50 42
SB-52 43
SB-53 44
SB-60 45
SB-70 46
SB-80 47

Micro Switch

SM-31 48
SM-33 49
SM-51 50
SM-51 51
(Lever/Special Knob Type)
SM-52 52
SM-53 53

Slide Switch

SL-001 54
SL-101 55
SL-102 56
SL-103 57
SL-105 58
SL-301 59
SL-302 60
SL-303 61
SL-305 62
SL-306 63
SL-308 64
SL-401 65
SL-501 66
SL-502 67
SL-503 68

Indicator Lamp

LH-580/581 69
LH-680 70

AC Socket

SS-61/66 71
SS-101 72
SS-210 73

Adaptor

SD-51/52/53/55 74
SD-61 75
SD-81/82 76
SD-83/85 77
SD-86/88 78

Assembly product

Assembly product 79

Quality Approval

U.S.A. & Canada

Japan

The European Union
(European Norms Electrical Certification)

China

The Netherlands

China

Korea

U.S.A. & Canada

All rights reserved for engineering improvements and modifications of materials, specifications and global agency approvals at any time without prior notice.

Users of products and information provided should determine the suitability and functional applicability prior to use. In no event shall MCL be responsible or liable for any indirect, consequential incidental damages or further loss of any kind whatsoever.

Specifications, photos, graphics and drawings are used for reference only and are subject to change without prior notice.

SR-01 Series

SR-01A

SR-01A

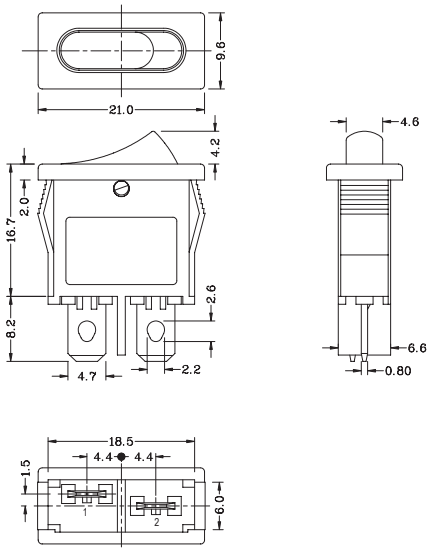
SR-01 Cap

Specifications:

13(2)A 250VAC T85

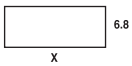
6A 250VAC T85
12A 125VAC

E199326



Suggested panel hole size

Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6

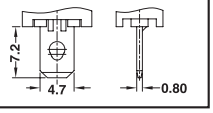


SR-01

A — L — Q — BK — BK — 2 — 0 — 0 — □□□□

Function	
A	ON-OFF

Current	
L	13(2)A 250VAC
	12A 125VAC

Terminal Type	
Q	

Base Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Type	
2	

Printing	
0	None
1	●
2	○ —
3	○ I
4	— =
5	I I I
A	

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Internal Use Only

SR-03 Series

SR-03A

SR-03A

SR-03P

SR-03P

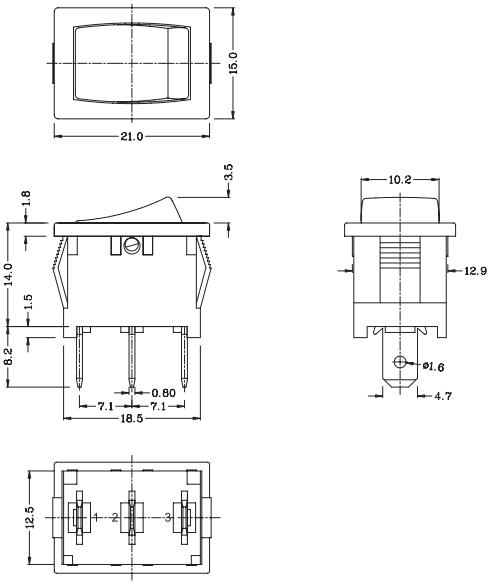
SR-06 Cap

Specifications:

6(4)A	250VAC	T85	T105/55	5E4
10(8)A	250VAC	T85	T105/55	

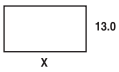
10A	250VAC	T105
16A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

E199326



Suggested panel hole size

Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6

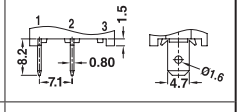
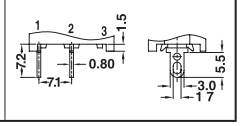


SR-03

P — H — Q — BK — RE — 2 — 0 — 0 — 4 — □□□

Function	
A	ON-OFF
P	ON-OFF w/lamp (Switched neutral)

Current		
H	10(8)A	250VAC
	6(4)A	250VAC 5E4
	16A	125VAC
	1/2HP	250VAC
	1/4HP	125VAC

Terminal Type	
Q	
S1	

Base Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Type	
2	

Printing	
0	None
1	
2	
3	
4	
5	
8	ON OFF
9	OFF ON
A	
B	

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Lamp Voltage	
0	None
3	110V
4	220V

Internal Use Only

SR-05 Series

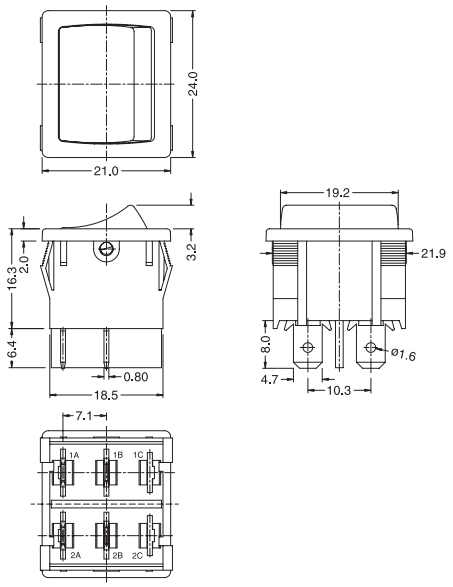
SR-05A | SR-05A | SR-05A | SR-05D | SR-05A | SR-05N | SR-05 Cap

Specifications:

6(4)A	250VAC	T85	5E4
10(4)A	250VAC	T105/55	
10(8)A	250VAC	T105/55	

8A	250VAC	T105
16A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

E199326



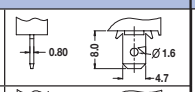
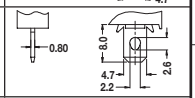
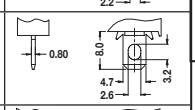
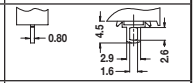
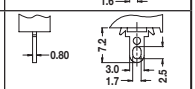
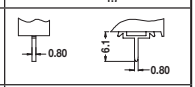
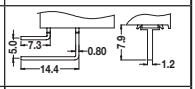
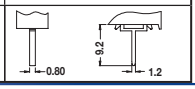
Suggested panel hole size

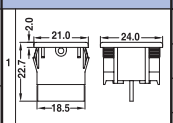
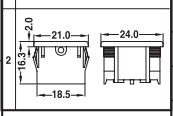
Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6

SR-05

A — 2 — L — Q — 1 — BK — BK — 1 — 0 — 0 — 0 — □□□□

Function		No.of Poles		Current	
A	ON-OFF	1	Single	H2	10(4)A 250VAC 6(4)A 250VAC 5E4 16A 125VAC (Except function A, B, N)
B	ON-ON	2	Double	L	10(8)A 250VAC 6(4)A 250VAC 5E4 16A 125VAC 1/2HP 250VAC 1/4HP 125VAC (For A, B, N functions only)
C	ON-OFF-ON				
D	(ON)-OFF				
E	ON-(OFF)				
F	ON-(ON)				
M	ON-OFF-(ON)				
N	ON-OFF w/lamp				
X	(ON)-OFF-(ON)				

Terminal Type	
Q	
Q1	
Q2	
S	
S1	
P1	
P3	
P6	

Base Type	
1	
2	

Base Color		Button Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Button Type	
1	(Except function N)
2	(For N function only)

Printing	
0	None
1	●
2	○ —
3	○ I
4	— =
5	I I I
8	ON OFF
9	OFF ON
A	

Color of Printing		Lamp Voltage		Internal Use Only
0	None	0	None	
1	White	1	12V	
2	Black	2	24V	
3	Red	3	110V	
4	Blue	4	220V	
5	Yellow			

SR-06 Series

SR-06A | SR-06A (8) | SR-06C | SR-06E (5) | SR-06N | SR-06I (Indicator Lamp) | SR-06Y (7) | SR-06N(9) | SR-06 Cap

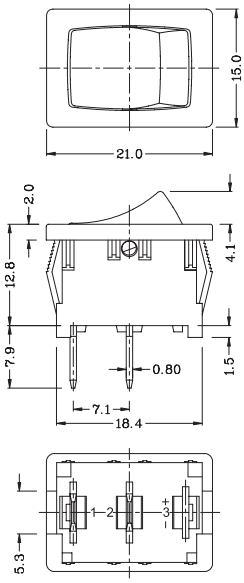
Specifications:

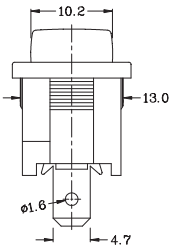
6(6)A	250VAC	T85		5E4
8A	250VAC	T85	T125/55	
10(3)A	250VAC	T85		
13A	250VAC	T85		15E3

IP54 waterproof protection for button type no. 9 (SGS approved)

8A	250VAC	T125
16A	125VAC	

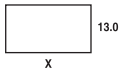
E199326
E250803





Suggested panel hole size

Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6



SR-06

A — H2 — Q — 1 — BK — BK — 2 — 0 — 0 — 0 — □□□□

Function		Current		Terminal Type	Base Type	Base Color		Button Color		Button Type		Printing		Color of Printing		Lamp Voltage		Internal Use Only
A	ON-OFF	H2	10(3)A 250VAC	Q	1 (Expect function N)	BK	Black	BK	Black	1	3.5 (Except function N & Y)	0	None	0	None	0	None	
B	ON-ON		8A 250VAC	Q1	2 (For N function only)	WT	White	WT	White	2	4.1 (Except function N & Y)	1	●	1	White	1	12V	
C	ON-OFF-ON		16A 125VAC	Q2	3 (For Y function only)	GE	Grey	GE	Grey	3	4.1 (For N function only)	2	○ —	2	Black	3	110V	
D	(ON)-OFF		(Except function I)	S	4 (For waterproof A, B, N functions only)	RE	Red	RE	Red	5	(For D & E functions only)	3	○ I	3	Red	4	220V	
E	ON-(OFF)	L	6(6)A 250VAC 5E4	S1		GR	Green	GR	Green	7	(For Y function only)	4	— =	4	Blue	5	2V	
F	ON-(ON)		10(3)A 250VAC	P1		BL	Blue	BL	Blue	8	(For A,B,C functions only)	5	I II	5	Yellow	6	6V	
M	ON-OFF-(ON)		13A 250VAC 15E3	P2		OR	Amber	OR	Amber	9	(For waterproof A, B, N functions only)	6	I ○ II					
X	(ON)-OFF-(ON)		16A 125VAC	P3		YE	Yellow	YE	Yellow	I	(For I function only)	7	— ○ =					
N	ON-OFF w/lamp (Unswitched neutral)		(For A, N, Y functions only)	P6								8	ON OFF					
Y	ON-OFF w/LED lamp			P8								9	OFF ON					
I	Indicator											A						
												B						
												C	HIGH OFF LOW					
												D	I O R					
												E						

SR-06NR *Series*

SR-06NR-M

SR-06NR-N (R)

SR-06NR-N

SR-06NR-I (Indicator Lamp)

SR-06NR-Y

SR-06NR-N (Glossy Button)

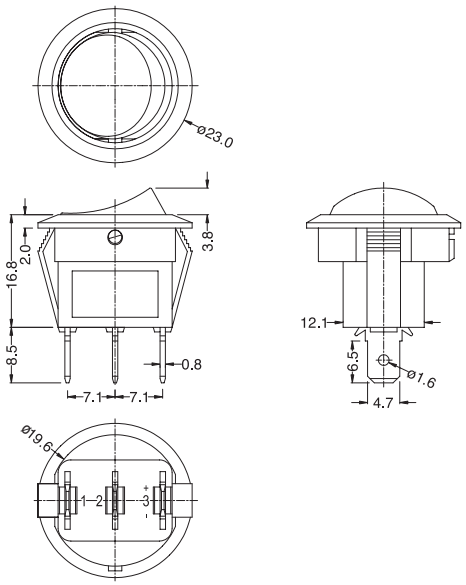
SR-06NR Cap

Specifications:

6(6)A	250VAC	T85		5E4
8A	250VAC	T85	T125/55	
10(3)A	250VAC	T85		
10(8)A	250VAC	T85	T105/55	
13A	250VAC	T85		15E3

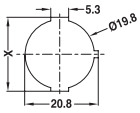
8A	250VAC	T125
16A	125VAC	
6.5A	250VAC	T125
13A	125VAC	

E199326
E250803



Suggested panel hole size

Panel thickness	X
0.75~1.25	20.3
1.25~2.0	20.8
2.0~3.0	21.1

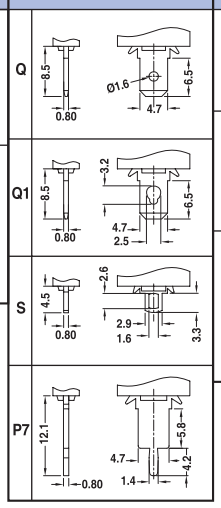


SR-06NR

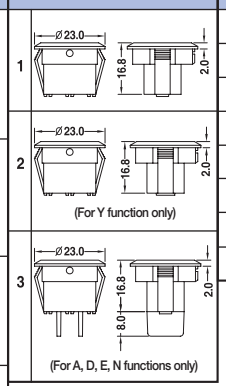
N — H2 — Q — 1 — BK — RE — 2 — 0 — 0 — 4 — 00 — □□□□

Function		Current		
A	ON-OFF	H2	10(3)A	250VAC
B	ON-ON		8A	250VAC
C	ON-OFF-ON		13A	125VAC
D	(ON)-OFF		(Except function I)	
E	ON-(OFF)	L	10(8)A	250VAC
F	ON-(ON)		6(6)A	250VAC 5E4
M	ON-OFF-(ON)		13A	250VAC 15E3
X	(ON)-OFF-(ON)		16A	125VAC
N	ON-OFF w/lamp (Unswitched neutral)		(For A, N, Y functions only)	
Y	ON-OFF w/LED lamp			
I	Indicator			

Terminal Type

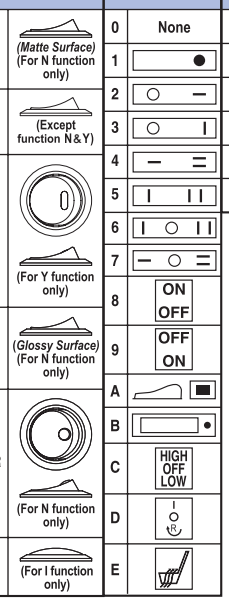


Base Type



Base Color		Button Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Button Type



Printing

Color of Printing		Lamp Voltage		Small Lens Color	
0	None	0	None	00	None
1	White	1	12V	RE	Red
2	Black	2	24V	GR	Green
3	Red	3	110V	BL	Blue
4	Blue	4	220V	OR	Amber
5	Yellow	5	2V		
		6	6V		
		7	36V		
		8	48V		

Internal Use Only

SR-08 Series

SR-08A

SR-08N

SR-08C

SR-08D

SR-08I (Indicator Lamp)

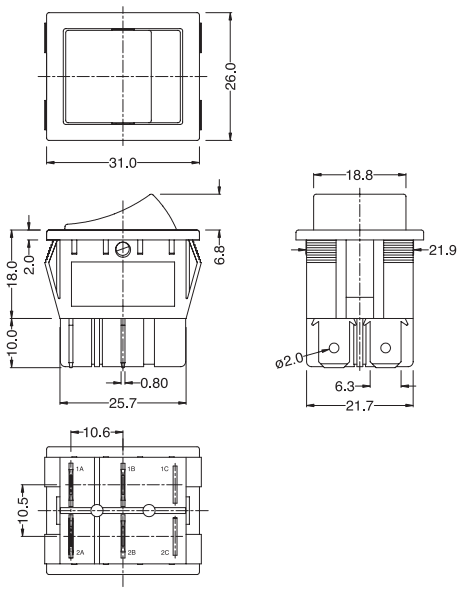
SR-08 Cap

Specifications:

10(3)A	250VAC	T125/55	5E4
16(4)A	250VAC	T125/55	
*10(8)A	250VAC	T125/55	

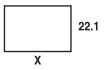
10A	250VAC	T125
16A	125VAC	
10.1A	250VAC	T125
20A	125VAC	
1/2HP	250VAC	T125
1/4HP	125VAC	

E199326
E250803



Suggested panel hole size

Panel thickness	X
1.0~1.5	29.0
1.5~2.0	29.4
2.0~3.0	29.8

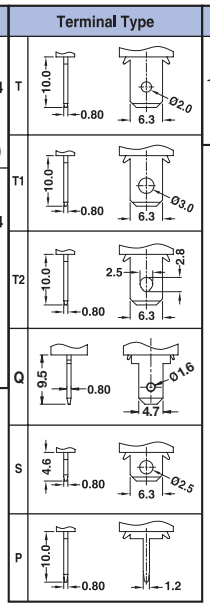


SR-08

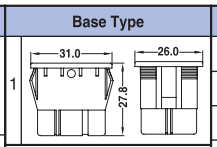
A — 2 — G — T — 1 — BK — BK — 2 — 0 — 0 — 0 — □□□□

Function		No.of Poles		Current	
A	ON-OFF	1	Single	G	16(4)A 250VAC
B	ON-ON	2	Double		10(3)A 250VAC 5E4
C	ON-OFF-ON				20A 125VAC
D	(ON)-OFF				(Except function I)
E	ON-(OFF)			H	16(4)A 250VAC
F	ON-(ON)				10(3)A 250VAC 5E4
M	ON-OFF-(ON)				16A 125VAC
X	(ON)-OFF-(ON)				1/2HP 250VAC
N	ON-OFF w/lamp				1/4HP 125VAC
I	Indicator				(For A, B, N functions only)

Terminal Type



Base Type



Base Color		Button Color		Button Type	
BK	Black	BK	Black	1	(For N function only)
WT	White	WT	White	2	(Except function N)
GE	Grey	GE	Grey	4	(For N function only)
RE	Red	RE	Red	I	(For I function only)
GR	Green	GR	Green		
BL	Blue	BL	Blue		
OR	Amber	OR	Amber		
YE	Yellow	YE	Yellow		

Printing		Color of Printing		Lamp Voltage		Internal Use Only
0	None	0	None	0	None	
1	●	1	White	1	12V	
2	○ —	2	Black	2	24V	
3	○ I	3	Red	3	110V	
4	— =	4	Blue	4	220V	
5	I I I	5	Yellow			
6	I ○ I I					
7	— ○ =					
8	ON OFF					
9	OFF ON					
A						
D	I O (R)					
F						

*For this option, please call factory for details

SR-11 Series

SR-11A

SR-11A

SR-11C

SR-11A

SR-11C

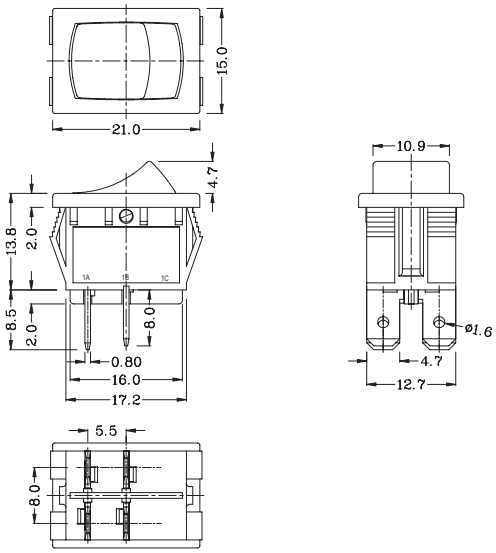
SR-11 Cap

Specifications:

3A	250VAC	T85
6A	250VAC	T85

3A	250VAC	T85
6A	125VAC	

E199326



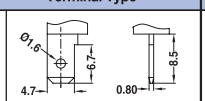
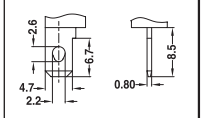
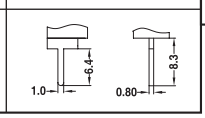
Suggested panel hole size

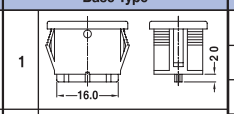
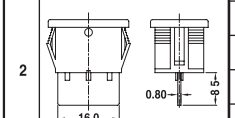
Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6

SR-11

A — 2 — S — Q — 1 — BK — BK — 2 — 0 — 0 — □□□□

Function		No.of Poles		Current		
A	ON-OFF	1	Single	S	3A	250VAC
B	ON-ON	2	Double		6A	125VAC
C	ON-OFF-ON					

Terminal Type	
Q	
Q1	
P	

Base Type	
1	
2	

Base Color		Button Color		Button Type	
BK	Black	BK	Black	2	
WT	White	WT	White		
GE	Grey	GE	Grey		
RE	Red	RE	Red		
GR	Green	GR	Green		
BL	Blue	BL	Blue		
OR	Amber	OR	Amber		
YE	Yellow	YE	Yellow		

Printing		Color of Printing	
0	None	0	None
1	●	1	White
2	○ —	2	Black
3	○ |	3	Red
4	— =	4	Blue
5	| ||	5	Yellow
6	| ○ ||		
7	— ○ =		
8	ON OFF		
9	OFF ON		
A			
G	LO OFF HI		

Internal Use Only

SR-12 Series

Patent No.: HK1167233 / ZL201120519546.X

SR-12A SR-12C SR-12K

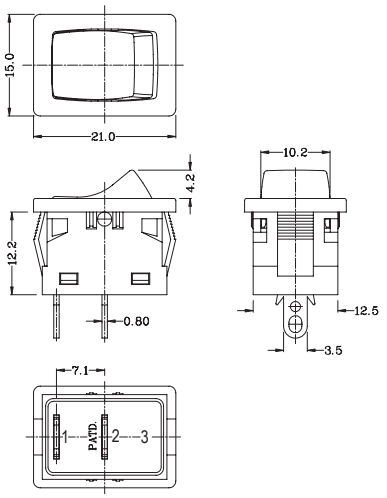
Specifications:

6(6)A 250VAC T85 3E4
10(4)A 250VAC T85
(For A, B, C functions only)

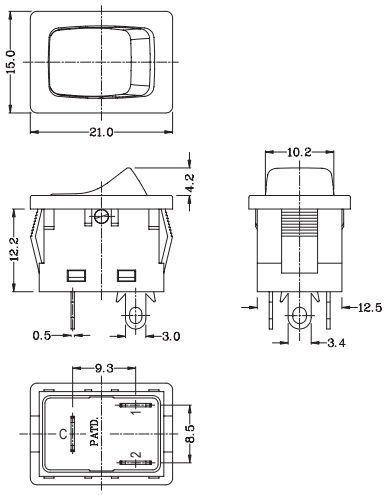
6(4)A 250VAC T85 5E4
10(4)A 250VAC T85
(For K, L, Q, S functions only)

6(6)A 250VAC T85 3E4
10(4)A 250VAC T85
15A GP 125VAC T85
E199326
(For A, B, C functions only)
*UL 61058 approved

6(4)A 250VAC T85 5E4
10(4)A 250VAC T85
16A GP 125VAC T85
Intertek 4006154
(For K, L, Q, S functions only)
*UL 61058 approved



(For A, B, C functions only)

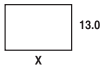


(For K, L, Q, S functions only)

Suggested panel hole size

Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6

For whole series

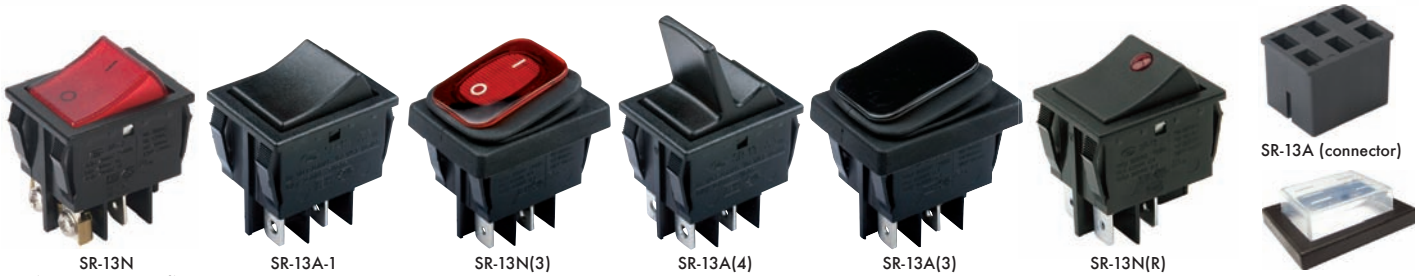


SR-12

A — L — S1 — 1 — BK — BK — 1 — 0 — 0 — □□□□

Function		Current		Terminal Type		Base Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Internal Use Only
A	ON-OFF	L	10(4)A 250VAC 6(6)A 250VAC 3E4 15A GP 125VAC (For A, B, C functions only)	Q	(For A, B, C functions only)	1	(For A, B, C functions only)	BK	Black	BK	Black	1	For A, B, C functions only	0	None	0	None	
B	ON-ON	H	10(4)A 250VAC 6(4)A 250VAC 5E4 16A GP 125VAC (For K, L, Q, S functions only)	S1	(For A, B, C functions only)	2	(For K, L, Q, S functions only)	WT	White	WT	White	2	For K, L, Q, S functions only	1	●	1	White	
C	ON-OFF-ON			S2	(For K, L, Q, S functions only)			GE	Grey	GE	Grey			2	○ —	2	Black	
K	OFF-ON1-ON1+2							RE	Red	RE	Red			3	○ I	3	Red	
L	(OFF)-ON1-ON1+2							GR	Green	GR	Green			4	— =	4	Blue	
Q	OFF-ON1-(ON1+2)							BL	Blue	BL	Blue			5	I I I	5	Yellow	
S	(OFF)-ON1-(ON1+2)							OR	Amber	OR	Amber			6	I ○ I I			
								YE	Yellow	YE	Yellow			7	— ○ =			
														8	ON OFF			
														9	OFF ON			
														A				
														B				
														C	HIGH OFF LOW			
														D				
														E				

SR-13 Series



SR-13N (screw nut terminal) | SR-13A-1 | SR-13N(3) | SR-13A(4) | SR-13A(3) | SR-13N(R) | SR-13A (connector) | SR-13 Cap

Specifications:

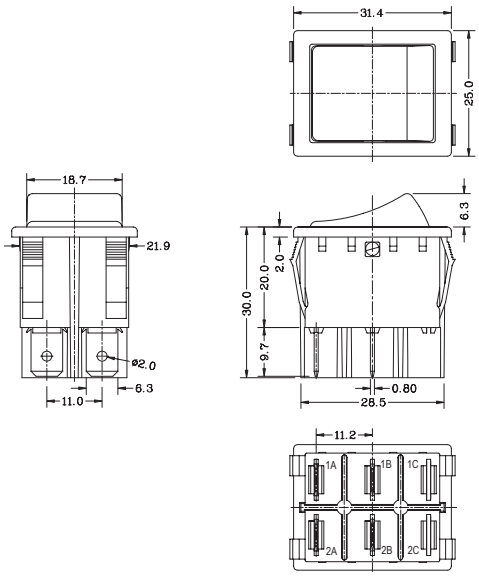
8(8)A	250VAC	T105/55		5E4
10(4)A	250VAC	T105/55		5E4
10(4)A	400VAC		T125/55	
10(6)A	250VAC		T125/55	5E4
16(8)A	250VAC	T105/55	T125/55	
20(3)A	250VAC		T125/55	

IP65 waterproof protection for button type no.3 (SGS approved)

10A	250VAC	T105
16A	125VAC	
16A	250VAC	T105
20A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

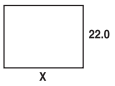
3/4HP	250VAC	T105
3/4HP	125VAC	
1HP	250VAC	T105
1/2HP	125VAC	

E199326
E250803



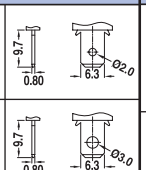
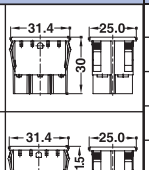
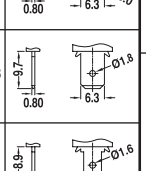
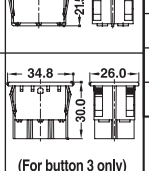
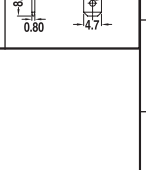
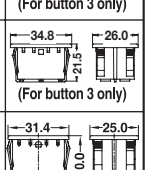
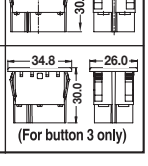
Suggested panel hole size

Panel thickness	X
1.0~1.5	30.2
1.5~2.0	30.5
2.0~3.0	30.8



SR-13

A — 2 — G — T — 1 — BK — BK — 1 — 0 — 0 — 0 — 00 — □□□□

Function		No.of Poles		Current		Terminal Type		Base Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Lamp Voltage		Small Lens Color		Internal Use Only
A	ON-OFF	1	Single	L	16(8)A 250VAC 16A 125VAC 1/2HP 250VAC 1/4HP 125VAC (For C, D, E, F, M, X functions only)	T		1		BK	Black	BK	Black	1	(Except functions N&P)	0	None	0	None	0	None	00	None	
B	ON-ON	2	Double			T1		2		WT	White	WT	White	2	(For N&P functions only)	1	●	1	White	1	12V	RE	Red	
C	ON-OFF-ON					T3		3	 (For button 3 only)	GE	Grey	GE	Grey	3	(For waterproof cap)	2	○ —	2	Black	2	24V	GR	Green	
D	(ON)-OFF			G	16(8)A 250VAC 10(6)A 250VAC 5E4 10(4)A 400VAC 20(3)A 250VAC 20A 125VAC 3/4HP 250VAC 3/4HP 125VAC (For A, B, N, P functions only)	Q		4	 (For button 3 only)	RE	Red	RE	Red	4	(Except functions N&P)	3	○ —	3	Red	3	110V	BL	Blue	
E	ON-(OFF)							5		GR	Green	GR	Green	R	(For N&P functions only)	4	— =	4	Blue	4	220V	OR	Amber	
F	ON-(ON)							6	(For button 3 only)	BL	Blue	BL	Blue	I	(For I function only)	5	— —	5	Yellow					
M	ON-OFF-(ON)									OR	Amber	OR	Amber			6	— ○ —							
X	(ON)-OFF-(ON)									YE	Yellow	YE	Yellow			7	— ○ =							
N	ON-OFF w/lamp (Unswitched neutral)															8	ON OFF							
P	ON-OFF w/lamp (Switched neutral)															9	OFF ON							
I	Indicator															A								

SR-15 Series

SR-15A

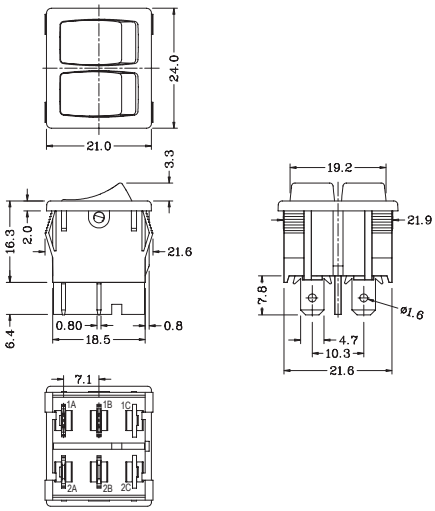
SR-15C

Specifications:

6(4)A	250VAC	T105	5E4
10(8)A	250VAC	T105	

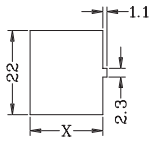
16A GP	125VAC	T105	6E3
1/2HP	125/250VAC	T105	6E3
6(4)A	125/250VAC	T105	5E4
10(8)A	125/250VAC	T105	1E4

E199326



Suggested panel hole size

Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6



SR-15

AA — L — Q — 1 — BK — BKBK — 11 — 00 — 00 — □□□□

Function of Left/Right Button		Current			Terminal Type	Base Type	Base Color		Color of Left/ Right Button		Left / Right Button Type	Printing of Left/ Right Button		Color of Left/Right Button Printing		Internal Use Only
A	ON-OFF	L	10(8)A	250VAC	Q	1	BK	Black	BK	Black	1	0	None	0	None	
B	ON-ON		6(4)A	250VAC 5E4	S1		WT	White	WT	White		1	●	1	White	
C	ON-OFF-ON		16A GP	125VAC			GE	Grey	GE	Grey		2	○ —	2	Black	
D	(ON)-OFF		1/2HP	125/250VAC			RE	Red	RE	Red		3	○ |	3	Red	
E	ON-(OFF)						GR	Green	GR	Green		4	— =	4	Blue	
F	ON-(ON)						BL	Blue	BL	Blue		5	| ||	5	Yellow	
M	ON-OFF-(ON)						OR	Amber	OR	Amber		6	| ○ ||			
X	(ON)-OFF-(ON)						YE	Yellow	YE	Yellow		7	— ○ =			
												8	ON OFF			
												9	OFF ON			

SR-20 Series

SR-20A (Glossy Button)

SR-20N (Glossy Button)

SR-20N

SR-20N (R)

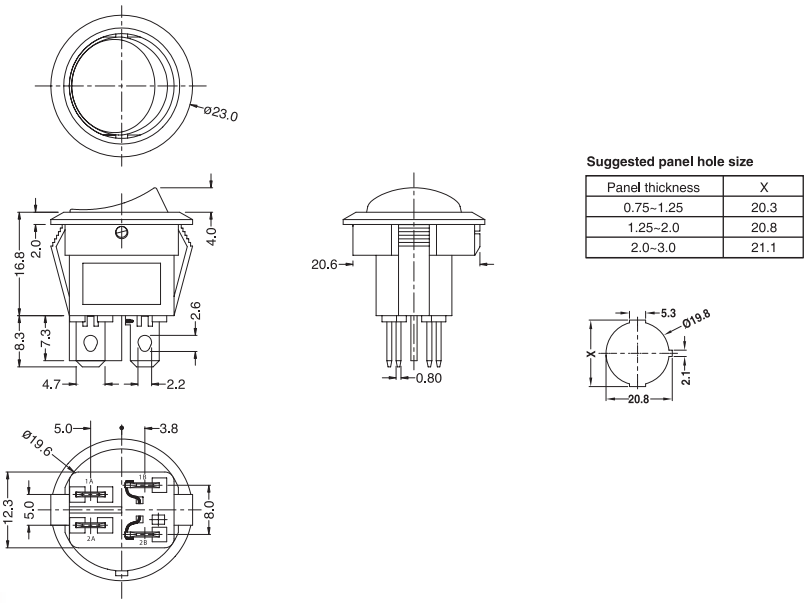
SR-06NR Cap

Specifications:

13(2)A 250VAC T85

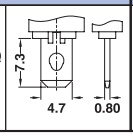
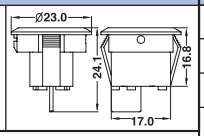
6A 250VAC T125
12A 125VAC

E199326



SR-20

N — 2 — L — Q — 1 — BK — RE — 6 — 0 — 0 — 4 — 00 — □□□□

Function		No.of Poles		Current		Terminal Type		Base Type	
A	ON-OFF	1	Single	L	13(2)A 250VAC 12A 125VAC (For A&N functions only)	Q		1	
N	(ON)-OFF w/lamp (Unswitched neutral)	2	Double	L	13(2)A 250VAC (For R function only)				
R	(ON)-OFF w/lamp								

Base Color		Button Color		Button Type		Printing		Color of Printing		Lamp Voltage		Small Lens Color		Internal Use Only
BK	Black	BK	Black	2	(Matte Surface)	0	None	0	None	0	None	00	None	
WT	White	WT	White			1	●	1	White	1	12V	RE	Red	
GE	Grey	GE	Grey	R		2	○ —	2	Black	3	110V	GR	Green	
RE	Red	RE	Red			3	○ |	3	Red	4	220V	BL	Blue	
GR	Green	GR	Green	6	(Glossy Surface)	8	ON OFF	4	Blue			OR	Amber	
BL	Blue	BL	Blue			9	OFF ON	5	Yellow					
OR	Amber	OR	Amber			A								
YE	Yellow	YE	Yellow											

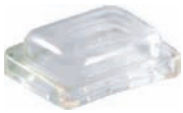
*Remark: No UL approval for SR-20-R function

SR-21 Series

SR-21A

SR-21N (1P1T)

SR-21N


SR-06 Cap

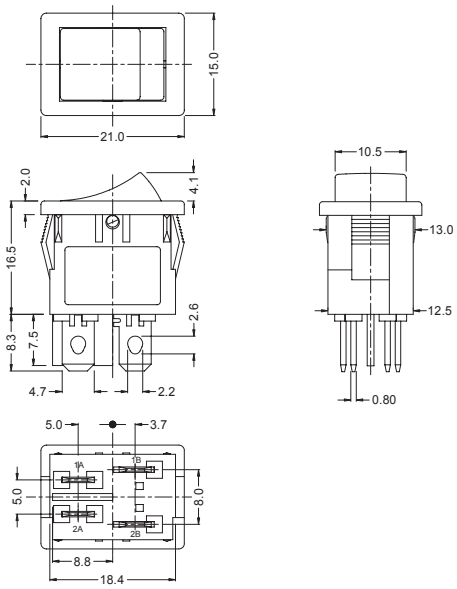
Specifications:

13(2)A 250VAC T85

CQC 05 KEMA KEUR

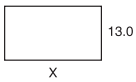
6A 250VAC T125
12A 125VAC

E199326



Suggested panel hole size

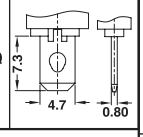
Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6

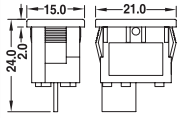
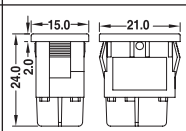


SR-21

A — 2 — L — Q — 1 — BK — BK — 2 — 0 — 0 — 0 — □□□□

Function		No.of Poles		Current	
A	ON-OFF	1	Single	L	13(2)A 250VAC
N	ON-OFF w/lamp	2	Double		12A 125VAC

Terminal Type	
Q	

Base Type	
1	
2	

Base Color		Button Color		Button Type	
BK	Black	BK	Black	2	
WT	White	WT	White		
GE	Grey	GE	Grey		
RE	Red	RE	Red		
GR	Green	GR	Green		
BL	Blue	BL	Blue		
OR	Amber	OR	Amber		
YE	Yellow	YE	Yellow		

Printing		Color of Printing		Lamp Voltage		Internal Use Only
0	None	0	None	0	None	
1	●	1	White	1	12V	
2	○ —	2	Black	3	110V	
3	○ I	3	Red	4	220V	
8	ON OFF	4	Blue			
9	OFF ON	5	Yellow			
A						

SR-22 Series

SR-22A

SR-22N

SR-22N

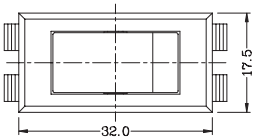
SR-22N

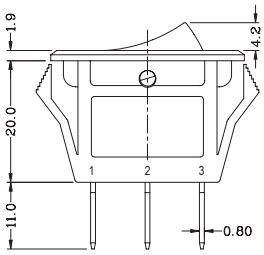
Specifications:

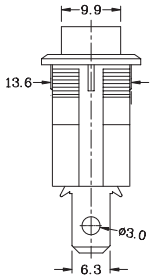
10(4)A 250VAC T125/55 5E4
16(6)A 250VAC T125/55

10.1A 250VAC T125
16A 125VAC

E199326

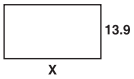


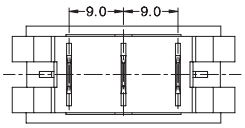




Suggested panel hole size

Panel thickness	X
0.75~3.0	29.0

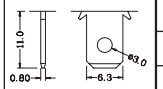
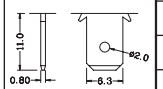
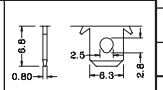
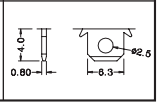




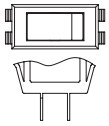
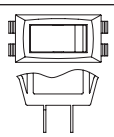
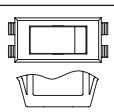
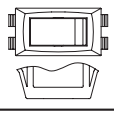
SR-22

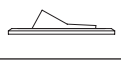
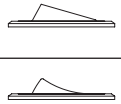
N — L — T — BK — RE — 3 — 3 — 0 — 1 — 3 — □□□□

Function		Current	
A	ON-OFF	L	16(6)A 250VAC
N	ON-OFF w/lamp (Unswitched neutral)		10(4)A 250VAC 5E4
			16A 125VAC

Terminal Type	
T	
T1	
S1	
S	

Base Color		Button Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Bezel/Base Type	
1	
2	
3	
4	

Button Type	
1	
2	
3	

Printing	
0	None
1	●
2	○ —
3	○ I
8	ON OFF
9	OFF ON
A	
B	

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Lamp Voltage	
0	None
1	12V
3	110V
4	220V

Internal Use Only

SR-23 Series

SR-23A

SR-23C

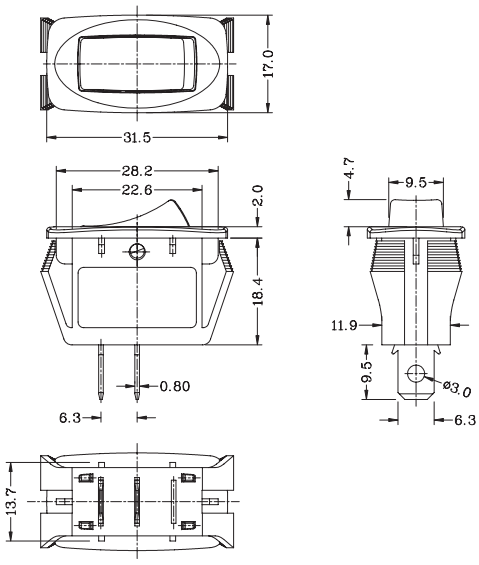
SR-23C

Specifications:

10(4)A	250VAC	T105	5E4
16(6)A	250VAC	T105	

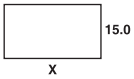
10A	250VAC	T105
16A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

E199326



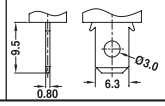
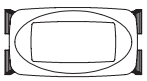
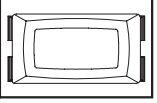
Suggested panel hole size

Panel thickness	X
0.8-2.0	28.8



SR-23

A — L — T — BK — BK — 1 — 1 — 0 — 0 — □□□□

Function		Current		Terminal Type		Base Color		Button Color		Base Type		Button Type		Printing		Color of Printing		Internal Use Only
A	ON-OFF	L	16(6)A 250VAC	T		BK	Black	BK	Black	1		1		0	None	0	None	
C	ON-OFF-ON		10(4)A 250VAC 5E4			WT	White	WT	White					1	●	1	White	
			16A 125VAC			GE	Grey	GE	Grey	2				2	○ —	2	Black	
			1/2HP 250VAC			RE	Red	RE	Red					3	○ |	3	Red	
			1/4HP 125VAC			GR	Green	GR	Green					4	— =	4	Blue	
						BL	Blue	BL	Blue					5	| ||	5	Yellow	
						OR	Amber	OR	Amber					6	| ○ ||			
						YE	Yellow	YE	Yellow					7	— ○ =			
														8	ON OFF			
														9	OFF ON			
														A				

SR-32 Series

SR-32N

SR-32M

SR-32I (Indicator Lamp)

SR-32N

SR-32N(R)

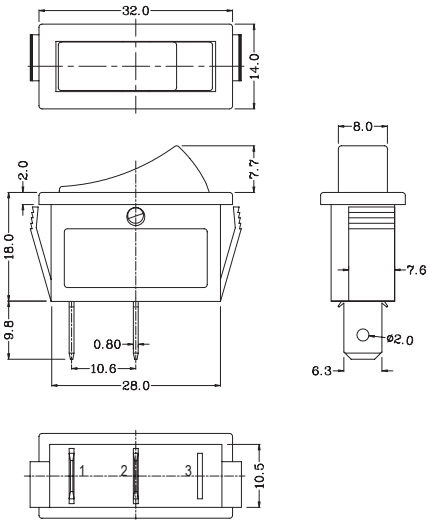
SR-32 Cap

Specifications:

10(3)A	250VAC	T125/55	5E4
16(4)A	250VAC	T125/55	
*10(8)A	250VAC	T125/55	

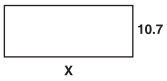
10.1A	250VAC	T125
16A	125VAC	
1/2HP	250VAC	T125
1/4HP	125VAC	

E199326
E250803



Suggested panel hole size

Panel thickness	X
0.75~1.25	30.3
1.25~2.0	30.5
2.0~3.0	30.7



SR-32

A — L — T — 1 — BK — BK — 3 — 0 — 0 — 0 — 00 — □□□□

Function		Current		
A	ON-OFF	L	16(4)A 250VAC	
B	ON-ON		10(3)A 250VAC 5E4	
C	ON-OFF-ON		16A 125VAC	
D	(ON)-OFF		(Expect function I)	
E	ON-(OFF)	H	16(4)A 250VAC	
F	ON-(ON)		10(3)A 250VAC 5E4	
M	ON-OFF-(ON)		16A 125VAC	
X	(ON)-OFF-(ON)		1/2HP 250VAC	
N	ON-OFF w/lamp (Unswitched neutral)		1/4HP 125VAC	
			(For A, B, N, P functions only)	
P	ON-OFF w/lamp (Switched neutral)			
I	Indicator			

Terminal Type	
T	9.8, 0.80, 6.3, ø2.0
T1	9.8, 0.80, 6.3, ø3.0
T2	9.8, 2.5, 2.8, 0.80, 6.3
Q	9.5, 0.80, ø1.6, 4.7
S	4.6, 0.80, 6.3, ø2.5
P	9.8, 0.80, 1.2

Base Type	
1	32.0, 14.0, 18.0

Base Color		Button Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Button Type	
1	(For N&P functions only)
2	(For N&P functions only)
3	(Except function N,P)
R	(For N&P functions only)
I	(For I function only)

Printing	
0	None
1	●
2	○ —
3	○ I
4	— =
5	I I I
6	I ○ I I
7	— ○ =
8	ON OFF
9	OFF ON
A	
D	I ○ ↻
H	—

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Lamp Voltage	
0	None
1	12V
3	110V
4	220V

Small Lens Color	
00	None
RE	Red
GR	Green
BL	Blue
AM	Amber

Internal Use Only

*For this option, please call factory for details

SR-38 Series

SR-38A

SR-38B

SR-38C

SR-38M

SR-38N

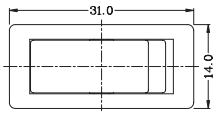
SR-38 Cap

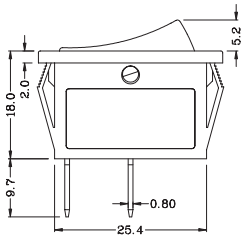
Specifications:

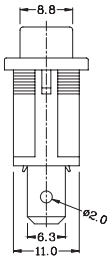
10(3)A	250VAC	T125/55	5E4
16(4)A	250VAC	T125/55	
*10(8)A	250VAC	T125/55	

10.1A	250VAC	T125
16A	125VAC	

E199326

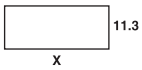


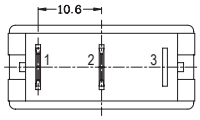




Suggested panel hole size

Panel thickness	X
0.75~1.25	28.3
1.25~2.0	28.5
2.0~3.0	28.7

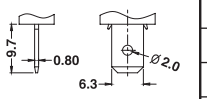
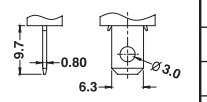
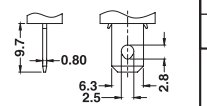
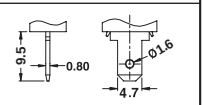
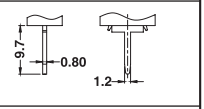
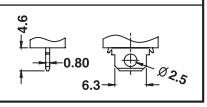




SR-38

A — L — T — BK — BK — 4 — 0 — 0 — 0 — 00 — □□□□

Function		Current	
A	ON-OFF	L	16(4)A 250VAC
B	ON-ON		10(3)A 250VAC 5E4
C	ON-OFF-ON		16A 125VAC
D	(ON)-OFF		
E	ON-(OFF)		
F	ON-(ON)		
M	ON-OFF-(ON)		
X	(ON)-OFF-(ON)		
N	ON-OFF w/lamp (Unswitched neutral)		

Terminal Type	
T	
T1	
T2	
Q	
P	
S	

Base Color		Button Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Button Type	
2	(For N function only)
3	(For C,M,X functions only)
4	(For A,B,D,E,F functions only)

Printing	
0	None
1	●
2	○ —
3	○ I
4	— =
5	I I I
6	I ○ I I
7	— ○ =
8	ON OFF
9	OFF ON
A	
D	I ○
H	—

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Lamp Voltage	
0	None
1	12V
3	110V
4	220V

Small Lens Color	
00	None
RE	Red
GR	Green
BL	Blue
OR	Amber

Internal Use Only

*For this option, please call factory for details

SR-55 Series

SR-55-NN(R)(R)

SR-55-AA

SR-55-AI

SR-55-II (Indicator Lamp)

SR-55-AA

SR-55-NN

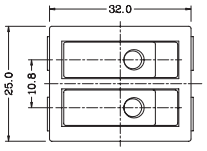
SR-13 Cap

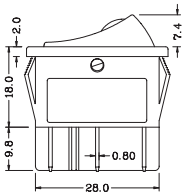
Specifications:

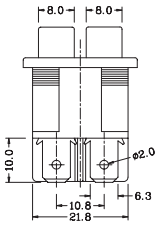
10(3)A	250VAC	T125/55	5E4
16(4)A	250VAC	T125/55	
*10(8)A	250VAC	T125/55	

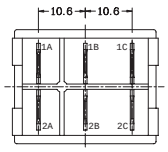
10A	250VAC	T105
16A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

E199326
E250803



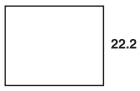






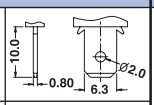
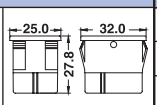
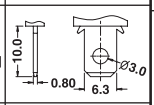
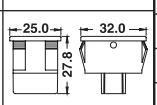
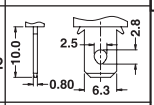
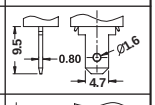
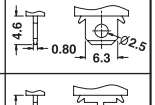
Suggested panel hole size

Panel thickness	X
0.75~1.25	30.3
1.25~2.0	30.5
2.0~3.0	30.7



SR-55

NN — L — T — 3 — WT — WTWT — RR — 00 — 00 — RERE — 44 — □□□□

Function of Left/Right Button		Current		Terminal Type		Base Type	
A	ON-OFF	L	16(4)A 250VAC	T		3	
B	ON-ON		10(3)A 250VAC 5E4				
C	ON-OFF-ON		16A 125VAC				
D	(ON)-OFF		(Expect function I)	T1		4	
E	ON-(OFF)	H	16(4)A 250VAC				
F	ON-(ON)		10(3)A 250VAC 5E4	T2			
M	ON-OFF-(ON)		16A 125VAC				
X	(ON)-OFF-(ON)		1/2HP 250VAC				
N	ON-OFF w/lamp (Unswitched neutral)		1/4HP 125VAC (For A, B, N, P functions only)	Q			
P	ON-OFF w/lamp (Switched neutral)			S			
I	Indicator			P			

Base Color		Color of Left/ Right Button		Left / Right Button Type		Printing of Left/ Right Button	
BK	Black	BK	Black	1	(For N&P functions only)	0	None
WT	White	WT	White			1	●
GE	Grey	GE	Grey	2	(For N&P functions only)	2	○ —
RE	Red	RE	Red			3	○ I
GR	Green	GR	Green	3	(Except function N,P)	4	— =
BL	Blue	BL	Blue			5	I I I
OR	Amber	OR	Amber	R	(For N&P functions only)	6	I ○ I I
YE	Yellow	YE	Yellow			7	— ○ =
				I	(For I function only)	8	ON OFF
						9	OFF ON
						A	
						K	I
						L	I I
						H	—

Color of Left/Right Button Printing		Color of Left / Right Small Lens		Left / Right Lamp Voltage		Internal Use Only
0	None	00	None	0	None	
1	White	RE	Red	1	12V	
2	Black	GR	Green	3	110V	
3	Red	BL	Blue	4	220V	
4	Blue	OR	Amber			
5	Yellow					

*For this option, please call factory for details

SR-68-1 Series

SR-68-1C

SR-68-1K

SR-68-1K

SR-68-1W

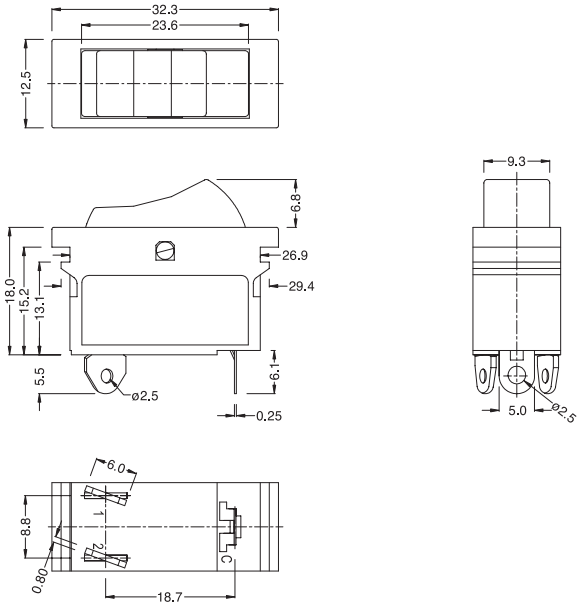
SR-68-1A

Specifications:

10(2)A	250VAC	T85/55	5E4
16(3)A	250VAC	T85/55	

10.1A	250VAC	T85
16A	125VAC	

E199326



SR-68-1

K — L — BK — OR — 1 — 0 — 0 — 1 — □□□

Function	
A	OFF-ON1+2
C	ON1-OFF-ON2
K	OFF-ON1-ON1+2
W	ON1-ON2-ON1+2

Current	
L	16(3)A 250VAC
	16A 125VAC

Base Color	
BK	Black

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Type	
0	None
1	
4	
5	

Printing	
0	None
1	○ I II
2	○ 1 2
3	1 2 3
4	— = ≡
5	I ○ II
6	— ○ =
7	ON OFF ON
8	○ — =
9	○ 1 2
A	OFF 1 2
B	1 ○ 2
C	I II III
D	○ —
E	○ I
F	ON OFF
G	○
H	1 2 3

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow
6	Silver

Base Type	
1	
2	4.0, 11.6, 4.0

Internal Use Only

SR-68-2 Series

SR-68-2C

SR-68-2W

SR-68-2K

SR-68-2K

SR-68-2A

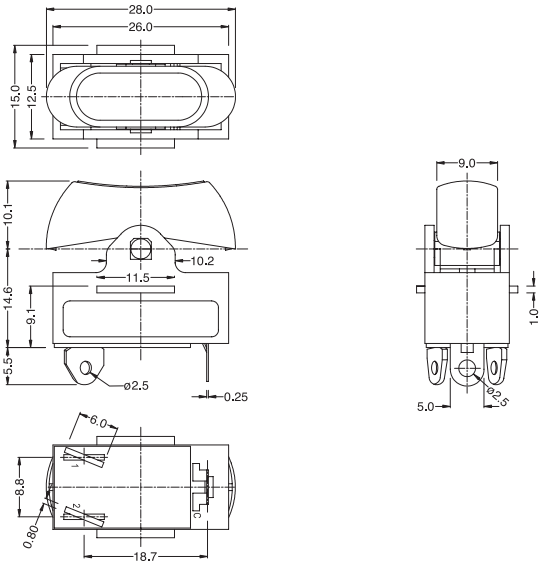
SR-68-2K

Specifications:

10(2)A 250VAC T85/55 5E4
16(3)A 250VAC T85/55

10.1A 250VAC T85
16A 125VAC

E199326



SR-68-2

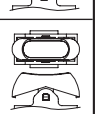
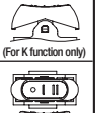
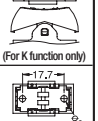
K — L — BK — GE — 1 — 0 — 0 — 1 — □□□□

Function	
A	OFF-ON$_{1+2}$
C	ON$_1$-OFF-ON$_2$
K	OFF-ON$_1$-ON$_{1+2}$
W	ON$_1$-ON$_2$-ON$_{1+2}$
M	ON$_1$-OFF-(ON$_2$)
X	(ON$_1$)-OFF-(ON$_2$)
Q	OFF-ON$_1$-(ON$_{1+2}$)
T	(ON$_1$)-ON$_2$-ON$_{1+2}$
U	ON$_1$-ON$_2$-(ON$_{1+2}$)
V	(ON$_1$)-ON$_2$-(ON$_{1+2}$)

Current	
L	16(3)A 250VAC 16A 125VAC (For A, C, K, W functions only)
L	16(3)A 250VAC (For M, X, Q, T, U, V functions only)

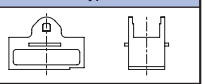
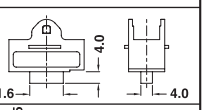
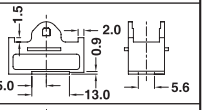
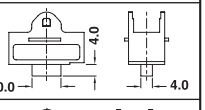
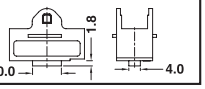
Base Color	
BK	Black

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Type	
0	None
1	
3	
6	 (For K function only)
9	(For K function only)
10	 (For K function only)
B	 Mid pole

Printing	
0	None
1	○ I II
2	○ 1 2
3	1 2 3
4	— = ≡
5	I ○ II
6	— ○ =
7	ON OFF ON
8	○ — =
9	○ 1 2
A	OFF 1 2
B	1 ○ 2
C	I II III
D	○ —
E	○ I
F	ON OFF
G	○ ✤ ✤
H	1 2 3

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow
6	Silver

Base Type	
1	
2	
3	
4	
5	

Internal Use Only

SR-68-3 Series

SR-68-3K

SR-68-3A

SR-68-3W

SR-68-3K

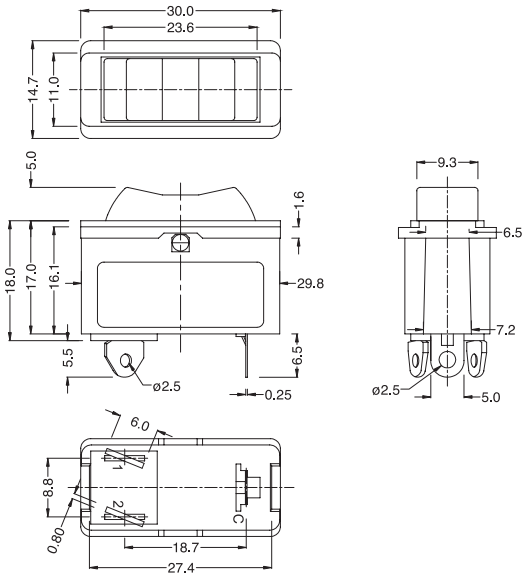
SR-68-3K

Specifications:

10(2)A	250VAC	T85/55	5E4
16(3)A	250VAC	T85/55	

10.1A	250VAC	T85
16A	125VAC	

E199326



SR-68-3

K — L — BK — BK — 1 — 0 — 0 — 1 — □□□

Function	
A	OFF-ON1+2
C	ON1-OFF-ON2
K	OFF-ON1-ON1+2
W	ON1-ON2-ON1+2

Current	
L	16(3)A 250VAC
	16A 125VAC

Base Color	
BK	Black

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Type	
0	None
1	
4	
5	

Printing	
0	None
1	○ I II
2	○ 1 2
3	1 2 3
4	— = ≡
5	I ○ II
6	— ○ =
7	ON OFF ON
8	○ — =
9	○ 1 2
A	OFF 1 2
B	1 ○ 2
C	I II III
D	○ —
E	○ I
F	ON OFF
G	○
H	1 2 3

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow
6	Silver

Base Type	
1	

Internal Use Only

SR-72 Series

Patent No.: 1001950.7M001 / 201030686292.1
1001950.7M002 / 201030686268.8

SR-72A

SR-72C

SR-72K(13)

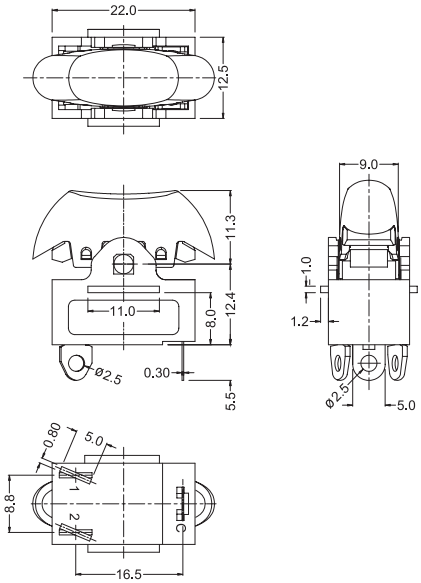
SR-72K

Specifications:

10(2)A	250VAC	T85	5E4
16(3)A	250VAC	T85	

10.1A	250VAC	T85
16A	125VAC	

E199326



SR-72

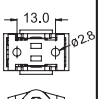
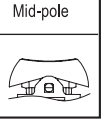
A — H — BK — BK — 2 — 0 — 0 — 1 — □□□□

Function	
A	OFF-ON$_{1+2}$
C	ON$_1$-OFF-ON$_2$
K	OFF-ON$_1$-ON$_{1+2}$
W	ON$_1$-ON$_2$-ON$_{1+2}$

Current	
H	16(3)A 250VAC
	10(2)A 250VAC 5E4
	16A 125VAC

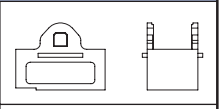
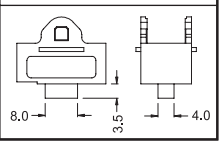
Base Color	
BK	Black

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Button Type	
0	None
2	
E	 Mid-pole
13	

Printing	
0	None
1	○ I II
2	○ 1 2
3	1 2 3
4	— = ≡
5	I ○ II
6	— ○ =
7	ON OFF ON
8	○ — =
9	○ 1 2
A	OFF 1 2
B	1 ○ 2
C	I II III
D	○ —
E	○ I
F	ON OFF
G	○
H	1 2 3

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Base Type	
1	
2	

Internal Use Only

SR-90 Series

SR-90A

SR-90N

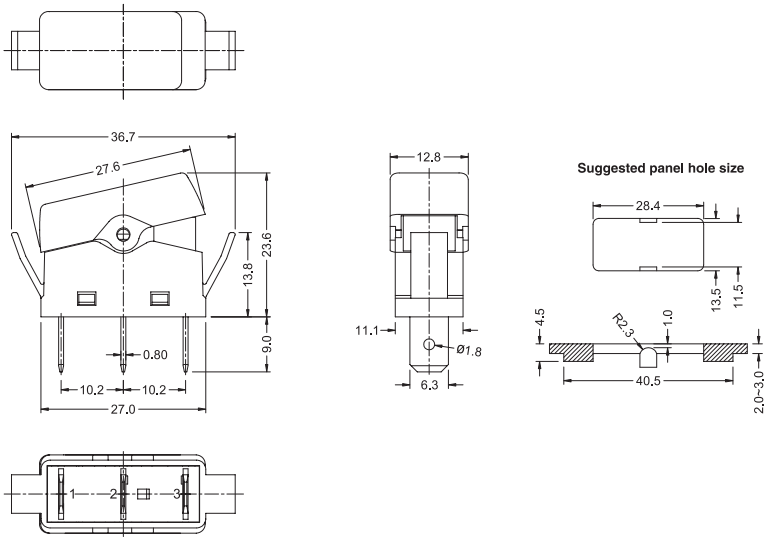
SR-90N

Specifications:

6(2)A	250VAC	T125/55	5E4
10(3)A	250VAC	T125/55	

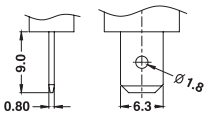
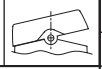
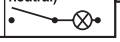
10.1A	250VAC	T125
16A	125VAC	

E199326



SR-90

N — H — T — BK — RE — 3 — 0 — 0 — 00 — 4 — □□□□

Function		Current		Terminal Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Small Lens Color		Lamp Voltage		Internal Use Only
A	ON-OFF	H	10(3)A 250VAC	T		BK	Black	BK	Black	3		0	None	0	None	00	None	0	None	
N	ON-OFF w/lamp (Unswitched neutral) 		6(2)A 250VAC 5E4					WT	White			1	●	1	White	RE	Red	1	12V	
			16A 125VAC					GE	Grey			2	○ —	2	Black	GR	Green	3	110V	
								RE	Red			3	○ |	3	Red	BL	Blue	4	220V	
								GR	Green			8	ON OFF	4	Blue	OR	Amber			
								BL	Blue			9	OFF ON	5	Yellow					
								OR	Amber			A								

SR-93 Series

SR-93R

SR-93N

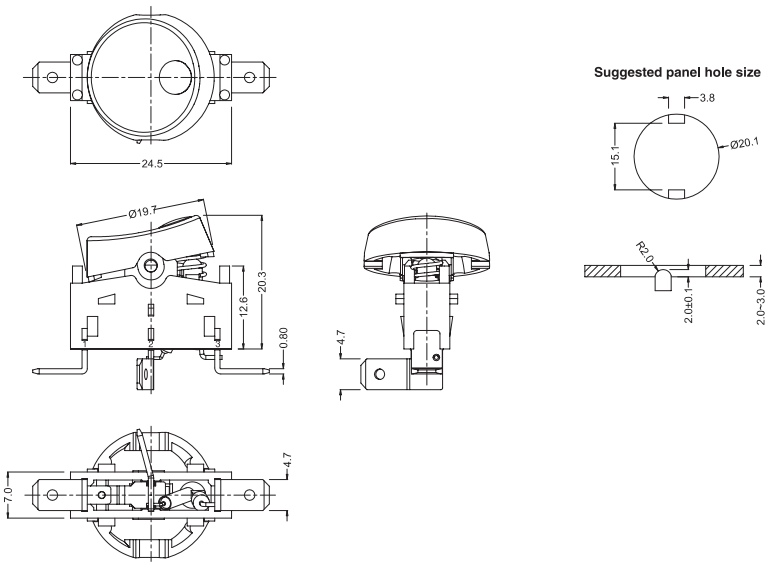
Specifications:

6(2)A	250VAC	T125/55	5E4
10(3)A	250VAC	T125/55	

6(2)A	125VAC/250VAC	T125/55	5E4
10(3)A	125VAC /250VAC	T125/55	
16A GP	125VAC	T125/55	

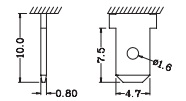
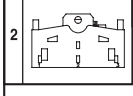
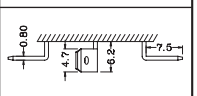
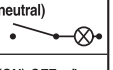
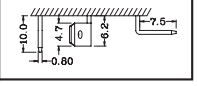
Intertek 4006154

*UL61058 approved



SR-93

R — L — A — 2 — BK — BK — 6 — 0 — 0 — RE — 4 — □□□□

Function		Current		Terminal Type		Base Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Small Lens Color		Lamp Voltage		Internal Use Only
A	ON-OFF	L	10(3)A 250VAC	Q		2		BK	Black	BK	Black	4		0	None	0	None	00	None	0	None	
D	(ON)-OFF		6(2)A 250VAC 5E4	A						WT	White	5		1	●	1	White	RE	Red	1	12V	
N	ON-OFF w/lamp (Unswitched neutral) 		16A GP 125VAC	B						GE	Grey	6		2	○ —	2	Black	GR	Green	2	24V	
R	(ON)-OFF w/lamp									RE	Red	R		3	○ |	3	Red	BL	Blue	3	110V	
										GR	Green			8	ON OFF	4	Blue	OR	Amber	4	220V	
										BL	Blue			9	OFF ON	5	Yellow					
										OR	Amber			A								
										YE	Yellow											

SR-95 Series

SR-95A

SR-95P(1)

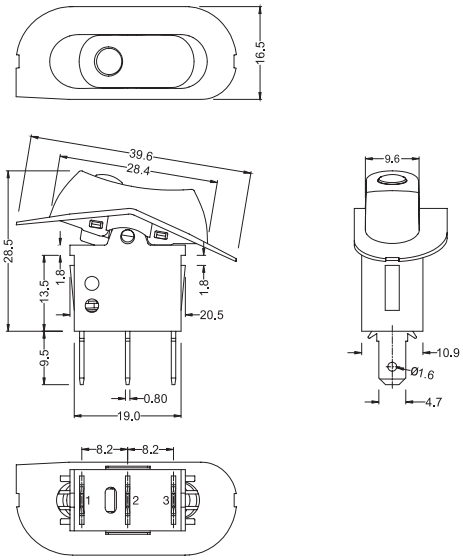
SR-95P(6)

Specifications:

6(3)A	250VAC	T85	5E4
10(4)A	250VAC	T105/55	
16A	250VAC	T105/55	

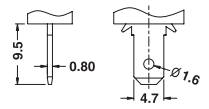
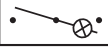
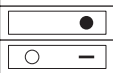
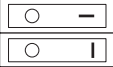
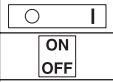
10A	250VAC	T105
16A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

E199326



SR-95

P — H — Q — BK — BK — 1 — 0 — 0 — RE — 4 — □□□□

Function		Current		Terminal Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Small Lens Color		Lamp Voltage		Internal Use Only
A	ON-OFF	H	16A 250VAC	Q		BK	Black	BK	Black	1		0	None	0	None	00	None	0	None	
P	ON-OFF w/lamp (Switched neutral) 		10(4)A 250VAC					WT	White	4		1		1	White	RE	Red	1	12V	
			6(3)A 250VAC 5E4					GE	Grey	5		2		2	Black	GR	Green	3	110V	
			16A 125VAC					RE	Red	6		3		3	Red	BL	Blue	4	220V	
			1/2HP 250VAC					GR	Green	9		8	ON OFF	4	Blue	OR	Amber			
			1/4HP 125VAC					BL	Blue			9	OFF ON	5	Yellow					
								OR	Amber			A								
								YE	Yellow											

SR-96 Series

SR-96R (6)

SR-96A (5)

SR-96N (4)

SR-96A (5)

SR-96N (6)

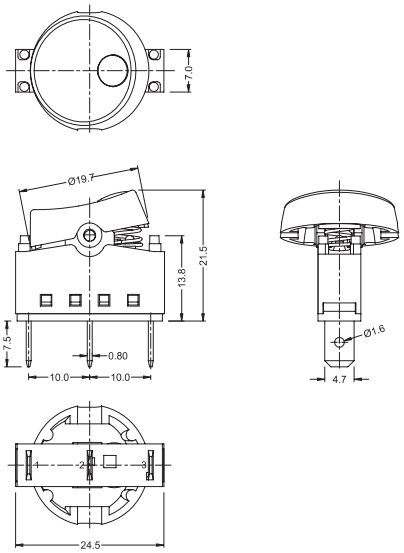
Specifications:

6(2)A	250VAC	T125/55	5E4
10(3)A	250VAC	T125/55	

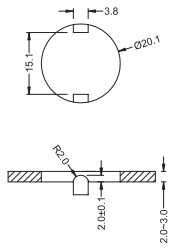
CQC 05 KEMA KEUR

7.5A	250VAC	T105
15A	125VAC	

E199326

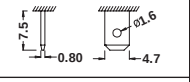
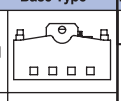
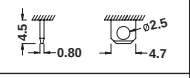
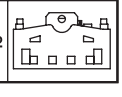
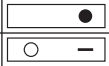
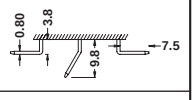
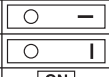
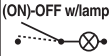
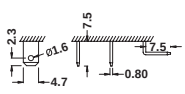
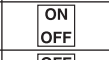
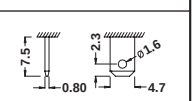


Suggested panel hole size



SR-96

R — L — Q — 1 — BK — BK — 6 — 0 — 0 — RE — 4 — □□□□

Function		Current			Terminal Type		Base Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Small Lens Color		Lamp Voltage		Internal Use Only
A	ON-OFF	L	10(3)A	250VAC	Q		1		BK	Black	BK	Black	4		0	None	0	None	00	None	0	None	
D	(ON)-OFF		6(2)A	250VAC 5E4	S		2				WT	White	5		1		1	White	RE	Red	3	110V	
N	ON-OFF w/lamp (Unswitched neutral)		15A	125VAC	Q1						GE	Grey	6		2		2	Black	GR	Green	4	220V	
R	(ON)-OFF w/lamp 				Q2						RE	Red	R		3		3	Red	BL	Blue			
					Q3						GR	Green			8	ON OFF	4	Blue	OR	Amber			
											BL	Blue			9	OFF ON	5	Yellow					
											OR	Amber			A								
											YE	Yellow											

SR-98 Series

SR-98A (2)

SR-98N (1)

SR-98N (4)

SR-98N (3)

SR-98A (3)

SR-98N (R)

SR-98A (5)

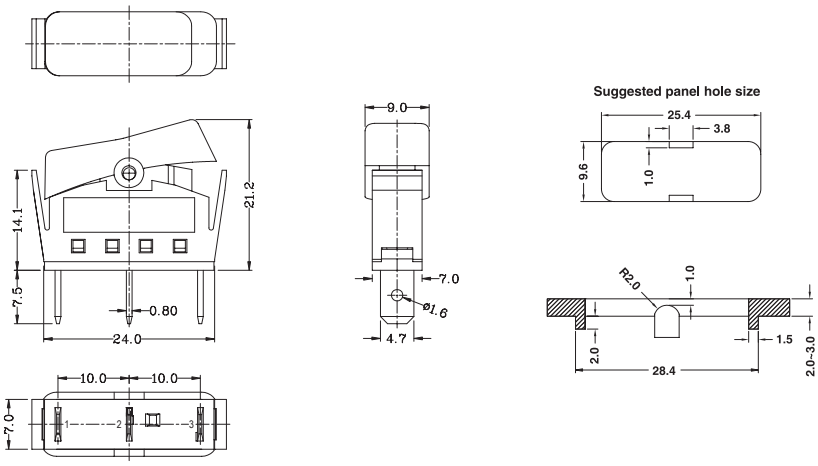
Specifications:

6(2)A	250VAC	T125/55	5E4
10(3)A	250VAC	T125/55	

CQC 05 KEMA KEUR

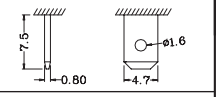
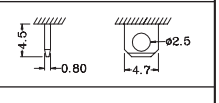
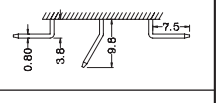
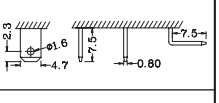
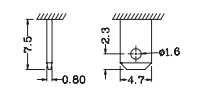
10.1A	250VAC	T125
16A	125VAC	

E199326



SR-98

N — H — Q — BK — RE — 3 — 0 — 0 — 00 — 4 — □□□□

Function		Current		Terminal Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Small Lens Color		Lamp Voltage		Internal Use Only
A	ON-OFF	H	10(3)A 250VAC	Q		BK	Black	BK	Black	1		0	None	0	None	00	None	0	None	
N	ON-OFF w/lamp (Unswitched neutral)		6(2)A 250VAC 5E4	S				WT	White	2		1		1	White	RE	Red	3	110V	
			16A 125VAC	Q1				GE	Grey	3		2		2	Black	GR	Green	4	220V	
				Q2				RE	Red	4		3		3	Red	BL	Blue			
				Q3				GR	Green	5		8	ON OFF	4	Blue	OR	Amber			
								BL	Blue	7		9	OFF ON	5	Yellow					
								OR	Amber	9		A								
								YE	Yellow	10										
										R										

SR-99 Series

SR-99A

SR-99N

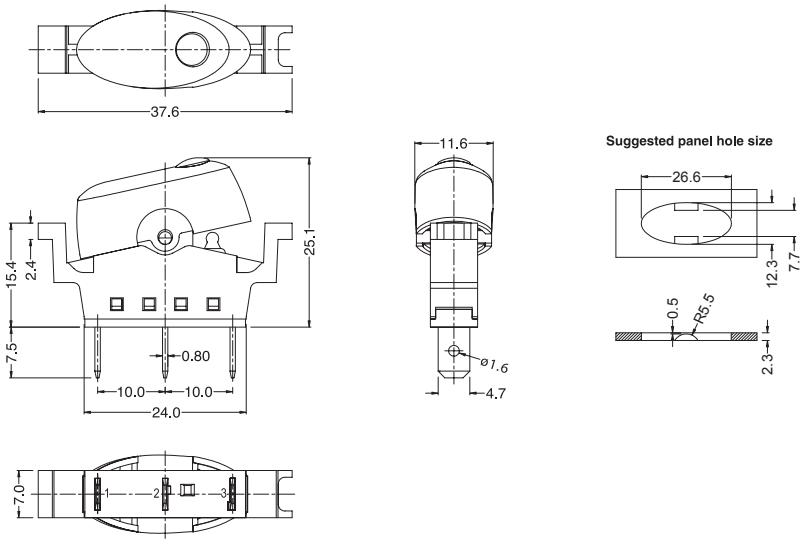
SR-99N

Specifications:

6(2)A	250VAC	T125/55	5E4
10(3)A	250VAC	T125/55	

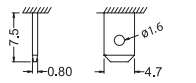
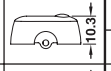
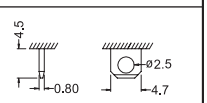
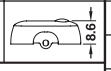
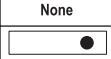
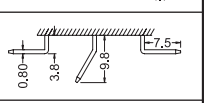
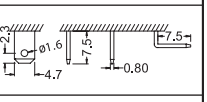
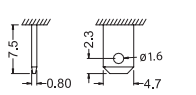
7.5A	250VAC	T105
15A	125VAC	

E199326



SR-99

N — H — Q — BK — BK — 1 — 0 — 0 — RE — 4 — □□□□

Function		Current		Terminal Type		Base Color		Button Color		Button Type		Printing		Color of Printing		Small Lens Color		Lamp Voltage		Internal Use Only
A	ON-OFF	H	10(3)A 250VAC	Q		BK	Black	BK	Black	1		0	None	0	None	00	None	0	None	
N	ON-OFF w/lamp (Unswitched neutral)		6(2)A 250VAC 5E4	S				WT	White	3		1		1	White	RE	Red	3	110V	
			15A 125VAC	Q1				GE	Grey			2		2	Black	GR	Green	4	220V	
				Q2				RE	Red			3		3	Red	BL	Blue			
				Q3				GR	Green			8	ON OFF	4	Blue	OR	Amber			
								BL	Blue			9	OFF ON	5	Yellow					
								OR	Amber			A								
								YE	Yellow											

ST-100

ST-100

ST-100

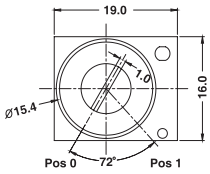
ST-100

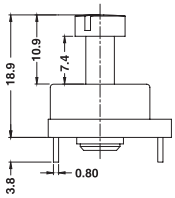
Specifications:

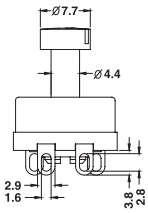
16A 250VAC/125VAC T125 3E3

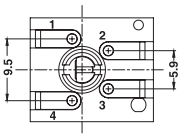
16A 125VAC/250VAC T125
(Voltage Selector)

E199326









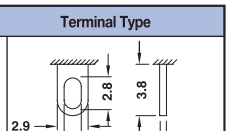
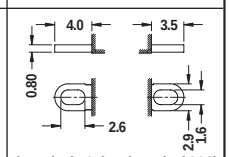
CIRCUIT

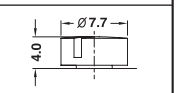
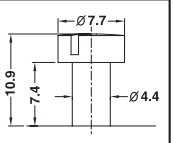
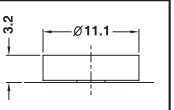
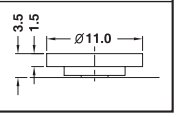
Position	Connected
0	1+2 / 3+4
1	2+3

ST-100

L — S — 2 — BK — BK — ☐☐☐☐

Current	
L	16A 125/250VAC

Terminal Type	
S	
S1	 (Terminal 1&4) (Terminal 2&3)

Button Type	
0	None
1	
2	
3	
4	

Base Color	
BK	Black

Button Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue

Internal Use Only

ST-700-18

ST-700-16

ST-700-R4

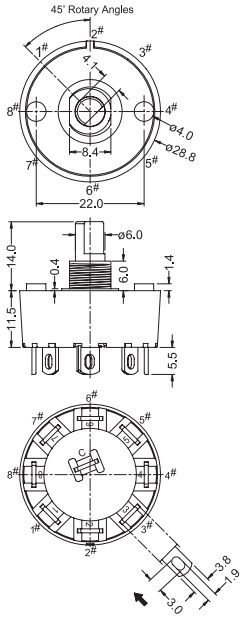
ST-700-R4

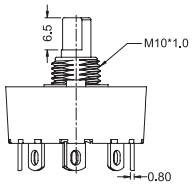
Specifications:

6(4)A 250VAC T85

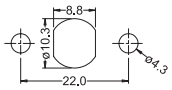
6.5A 250VAC T125
13A 125VAC

E199326





Suggested panel hole size



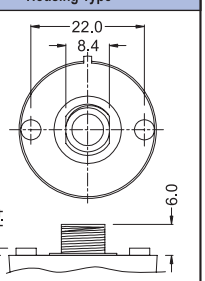
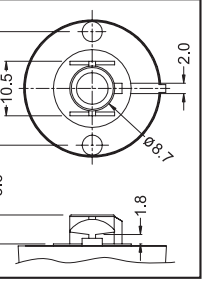
Wiring Diagram

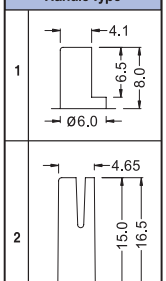
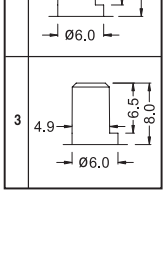
ST-700

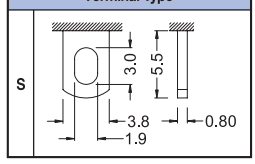
18 — M — 1 — 1 — S — BK — □□□□

Circuit	
12, 13, 14, 15, 16, 17, 18	14 No.of position Single pole Please call factory for detail circuit diagram
R2, R3, R4, R5, R6, R7	R3 No.of position Single pole with spring return right Please call factory for detail circuit diagram
L2, L3, L4, L5, L6, L7	L3 No.of position Single pole with spring return left Please call factory for detail circuit diagram
X3, X4, X5, X6	X3 No.of position Single pole with spring return both left and right Please call factory for detail circuit diagram

Current	
M	6(4)A 250VAC 13A 125VAC

Housing Type	
1	
2	

Handle Type	
1	
2	
3	

Terminal Type	
S	

Base Color	
BK	Black

Internal Use Only

* Remarks : Screw nut is available on request.

Patent No.: 13109079.0 / 201320245687.6

ST-701 ST-701

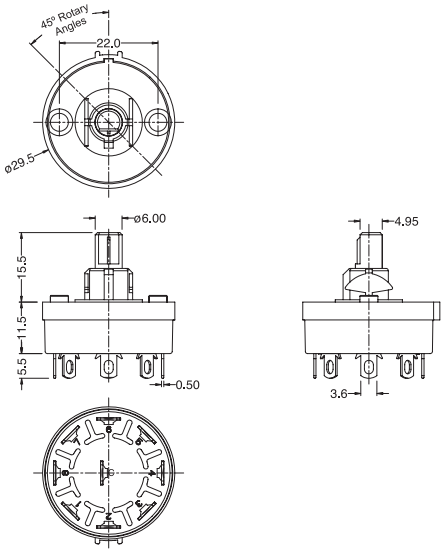
Specifications:

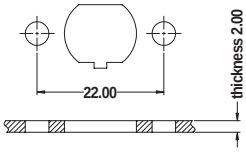
6(5)A 250VAC T85

6(5)A 250VAC T85
13A GP 125VAC T85

Intertek 4006154

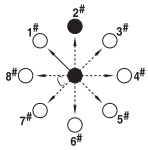
*UL61058 approved





Suggested panel hole size

Wiring Diagram

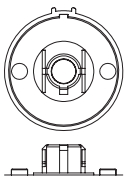
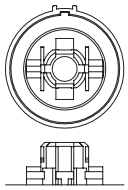
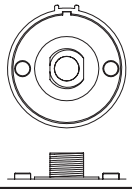


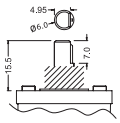
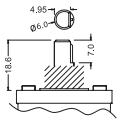
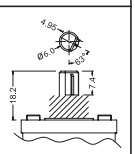
ST-701

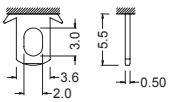
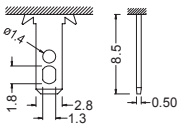
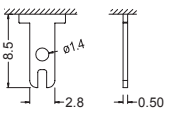
17 — M — 1 — 1 — S — BK — □□□□

Circuit	
12, 13, 14, 15, 16, 17	14 — No.of position — Single pole — Please call factory for detail circuit diagram
R2, R3, R4, R5, R6	R3 — No.of position — Single pole with spring return right — Please call factory for detail circuit diagram
L2, L3, L4, L5, L6	L3 — No.of position — Single pole with spring return left — Please call factory for detail circuit diagram

Current		
M	6(5)A	250VAC
	13A GP	125VAC

Housing Type	
1	
2	
3	

Handle Type	
1	 For #1 and #3 housing only
2	 For #1, #2 and #3 housing only
3	 For #1, #2 and #3 housing only

Terminal Type	
S	
H	
H1	

Base Color	
BK	Black

Internal Use Only

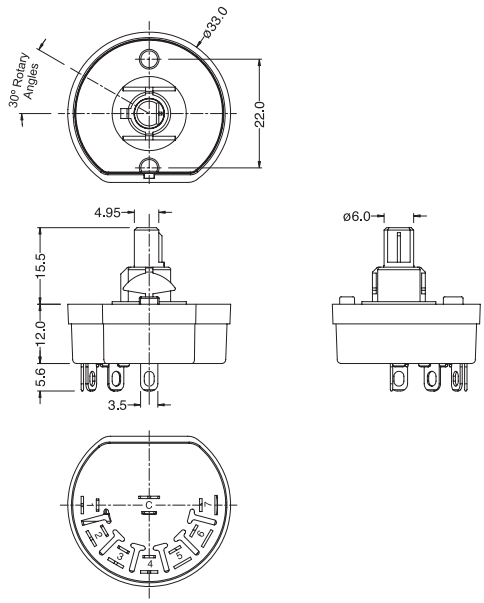
Specifications:

6(5)A 250VAC T85

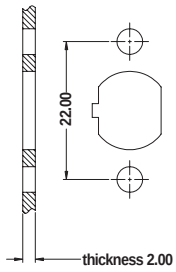
6(5)A 250VAC T85
13A GP 125VAC

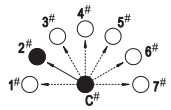
Intertek 4006154

*UL61058 approved



Suggested panel hole size





Wiring Diagram

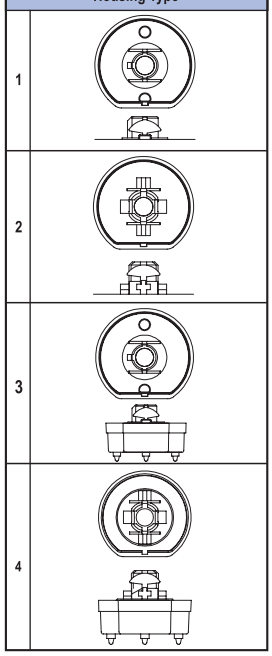
ST-702

16 — M — 1 — 1 — S — BK — □□□□

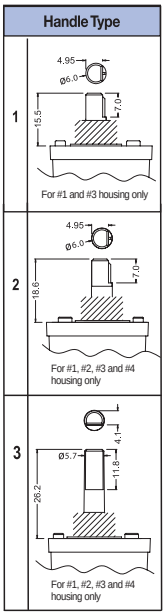
Circuit	
12, 13, 14, 15, 16, 17	14 No.of position Single pole Please call factory for detail circuit diagram
R2, R3, R4, R5, R6, R7	R3 No.of position Single pole with spring return right Please call factory for detail circuit diagram
L2, L3, L4, L5, L6, L7	L3 No.of position Single pole with spring return left Please call factory for detail circuit diagram

Current		
M	6(5)A	250VAC
	13A GP	125VAC

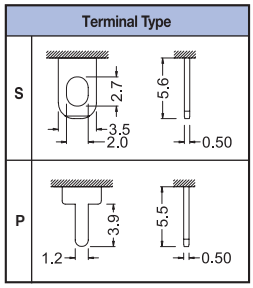
Housing Type



Handle Type



Terminal Type



Base Color	
BK	Black

Internal Use Only

ST-800

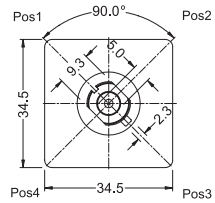
ST-800

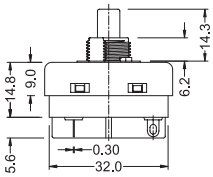
Specifications:

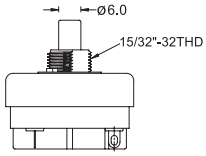
3(1)A 250VAC T85

2A	250VAC	T125
4A	125VAC	
5A	250VAC	T125
10A	125VAC	

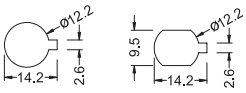
E199326

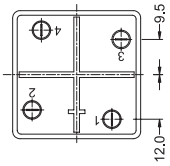






Suggested panel hole size





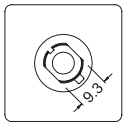
ST-800

1 — S — 1 — S — BK — □□□□

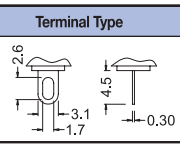
Circuit	
1	Type I
2	Type II
3	Type III
4	Type IV

Current	
S	3(1)A 250VAC
	4A 125VAC
M	3(1)A 250VAC
	10A 125VAC

Cover Type



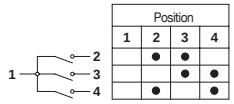
Terminal Type



Base Color	
BK	Black

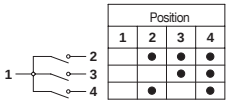
Internal Use Only

CIRCUIT OPTIONS :



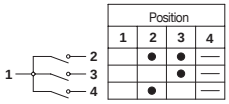
TYPE I

Position	1	2	3	4
		●	●	
			●	●
		●		●



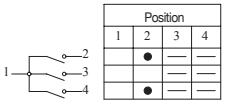
TYPE II

Position	1	2	3	4
		●	●	●
			●	●
		●		●



TYPE III

Position	1	2	3	4
		●	●	—
			●	—
		●		—



TYPE IV

Position	1	2	3	4
		●	—	—
			—	—
		●	—	—

Terminal 1# line in
P.S. For more circuit options, please call factory.

* Remarks: Screw nut is available on request.

ST-902

ST-902

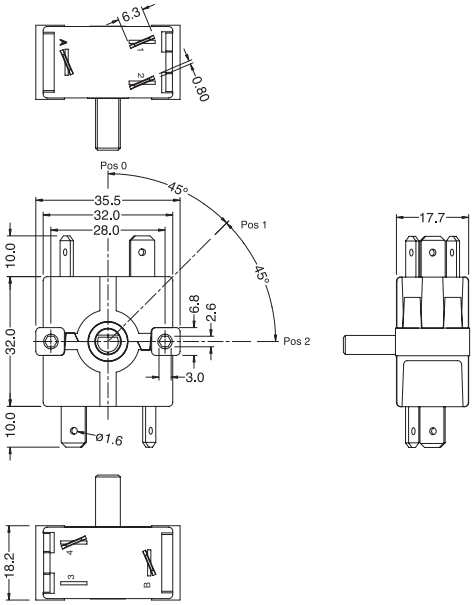
Specifications:

6(1)A	250VAC	T125	5E4
16(3)A	250VAC	T125	

6(1)A	250VAC	T120	5E4
16(3)A	250VAC	T120	
16A GP	125VAC	T120	

E199326

*UL61058 approved



ST-902

L — 1 — D — 01 — 2 — T

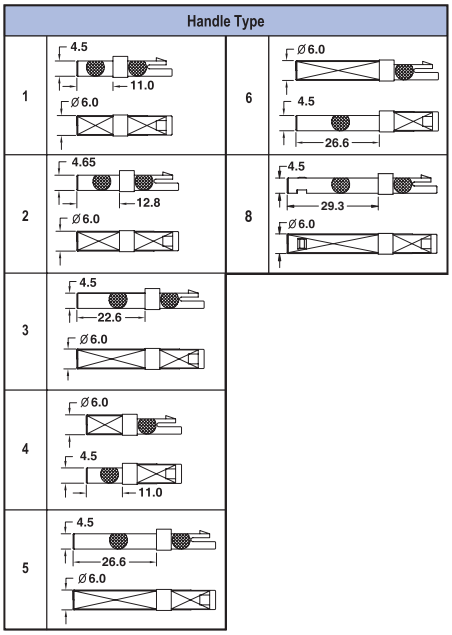
Current	
L	16(3)A 250VAC
	6(1)A 250VAC 5E4
	16A GP 125VAC

Degree of rotation	
1	45°
2	30°
3	25.7°

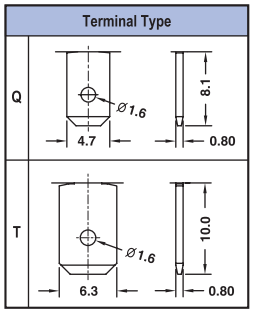
No. of Position	
B	2
C	3
D	4
E	5
F	6
G	7

Circuit	
01	Almost Infinite Options Please Call Factory
02	
03	
04	
05	
06	
07	
08	
09	
10	
⋮	

Handle Type



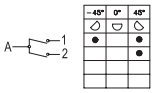
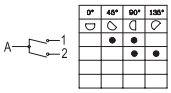
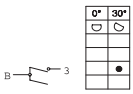
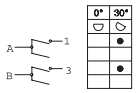
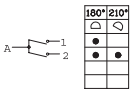
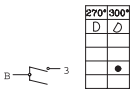
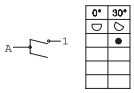
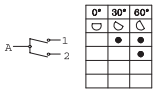
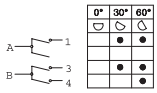
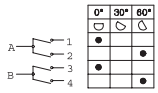
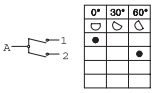
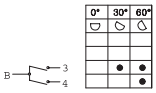
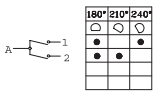
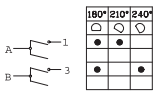
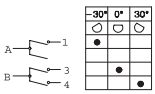
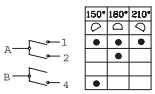
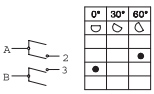
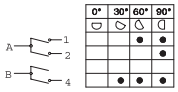
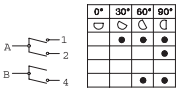
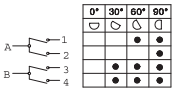
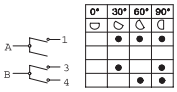
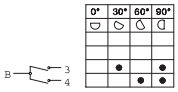
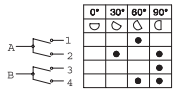
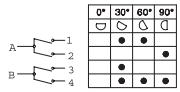
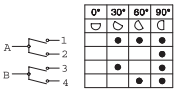
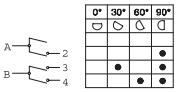
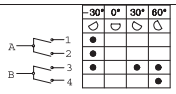
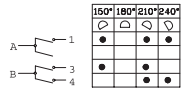
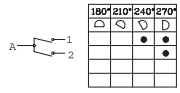
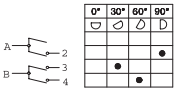
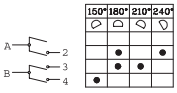
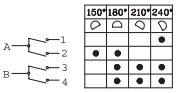
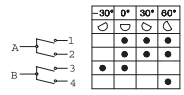
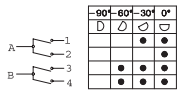
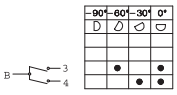
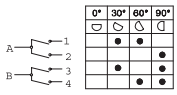
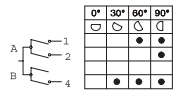
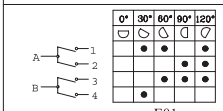
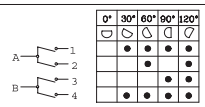
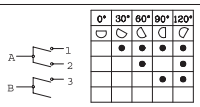
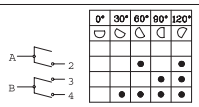
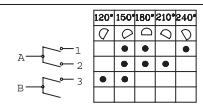
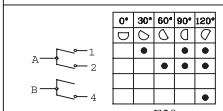
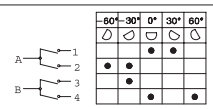
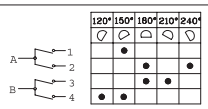
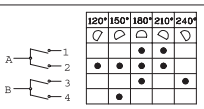
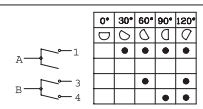
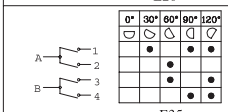
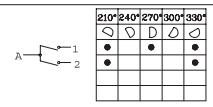
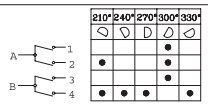
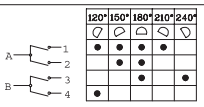
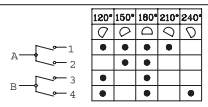
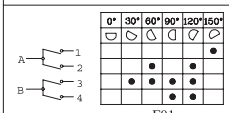
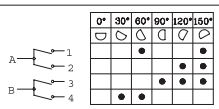
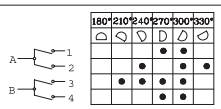
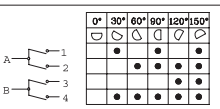
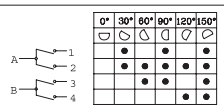
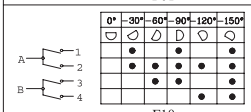
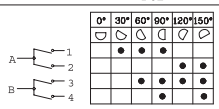
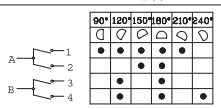
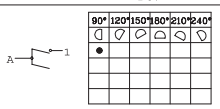
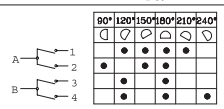
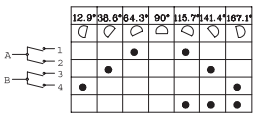
Terminal Type



Internal Use Only

For more circuit options, please refer to next page

Circuit Options:

ST-902-1	 C02	 D08			
ST-902-2	 B01	 B02	 B05	 B06	 B07
	 C01	 C02	 C03	 C05	 C07
	 C12	 C16	 C33	 C36	 C37
	 D01	 D02	 D06	 D08	 D09
	 D10	 D14	 D15	 D17	 D20
	 D30	 D31	 D32	 D33	 D34
	 D38	 D43	 D46	 D53	 D55
	 E01	 E09	 E12	 E13	 E14
	 E20	 E21	 E22	 E25	 E34
	 E35	 E36	 E37	 E42	 E43
	 F01	 F02	 F06	 F07	 F09
	 F10	 F14	 F22	 F23	 F24
ST-902-3	 G02				

For more circuit options, please call factory

SB-17D

SB-17D

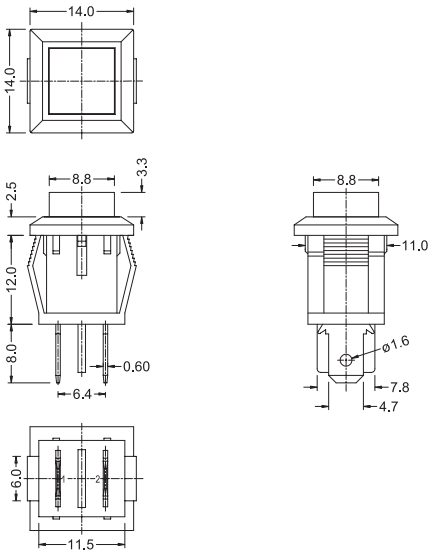
SB-17D

SB-17E

Specifications:

1A	250VAC	T85
2A	125VAC	

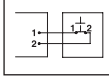
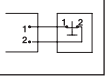
E199326



Suggested panel hole size

Panel thickness	X
0.75~1.25	12.8
1.25~2.0	13.0
2.0~3.0	13.2

WIRING DIAGRAM

Function:D	Function:E
	

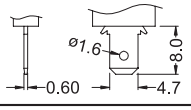
SB-17

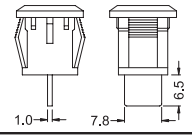
D — BK — RE — Q — 1 — 0 — 0 — □□□□

Function	
D	(ON)-OFF
E	ON-(OFF)

Base Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Knob Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Terminal Type	
Q	

Base Type	
1	

Printing	
0	None
1	
2	

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Internal Use Only

SB-25A

SB-25A

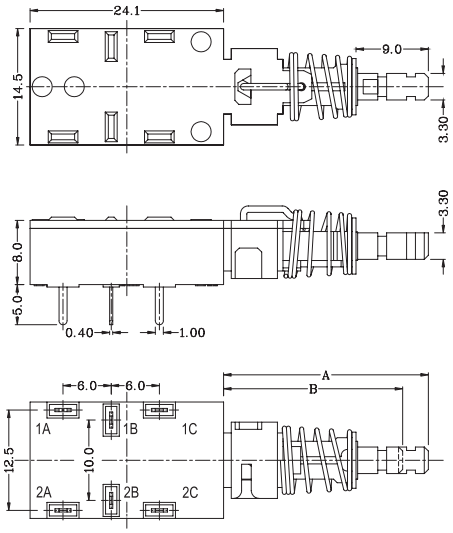
Specifications:

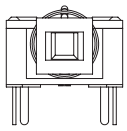
6(3)A	250VAC	25T105	5E4
8(3)A	250VAC	25T105	

CQC 05 KEMA KEUR

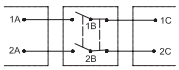
4A	250VAC	T105
8A	125VAC	
TV5		

UL c UL (Pending)





Travel	
A. Free Position	25.5mm±0.5
B. Operating Position	22.3mm±0.5



WIRING DIAGRAM

SB-25

B — 2 — L — BK — BK — 1 — 1 — P — □□□□

Function	
A	ON-OFF
B	ON-ON
D	(ON)-OFF
E	ON-(OFF)
F	ON-(ON)

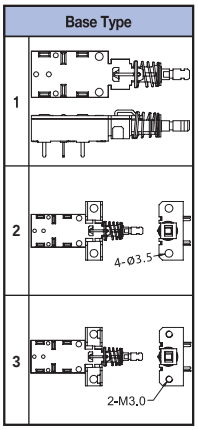
No. of Poles	
1	Single
2	Double

Current	
L	8(3)A 250VAC
	6(3)A 250VAC 5E4

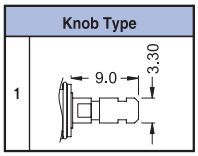
Base Color	
BK	Black

Knob Color	
BK	Black

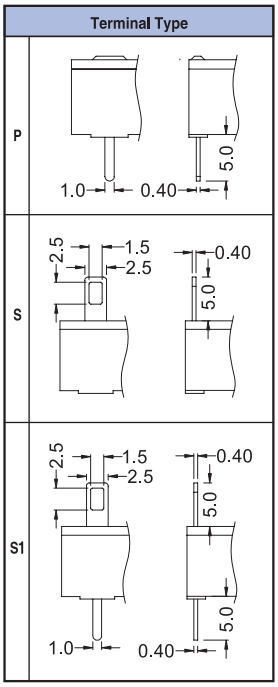
Base Type



Knob Type



Terminal Type



Internal Use Only

SB-30 Series

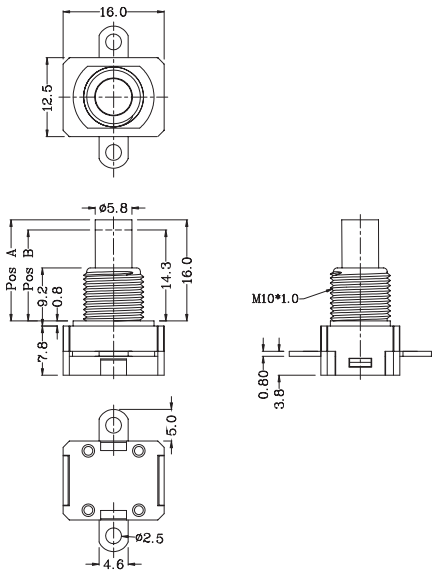
SB-30A SB-30D SB-30D SB-30A SB-30A SB-30D

Specifications:

3A	250VAC	T85	5E4
6(3)A	250VAC	T85	
10(3)A	250VAC	T85	

3A	250VAC	T125
6A	125VAC	
8A	250VAC	T125
16A	125VAC	

E199326



CIRCUIT DIAGRAM

Pos.A	Pos.B
OFF	ON

SB-30

A — S — BK — BK — 1 — 1 — S — □□□□

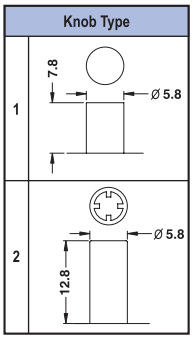
Function	
A	ON-OFF w/lock
D	(ON)-OFF

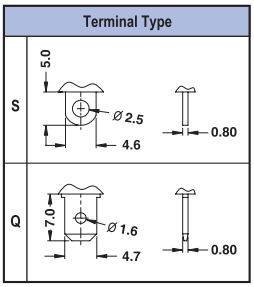
Current		
S	3A	250VAC
	6A	125VAC
H	10(3)A	250VAC
	6(3)A	250VAC 5E4
	16A	125VAC

Base Color	
BK	Black

Knob Color	
BK	Black

Housing Type	
1	
2	

Knob Type	
1	
2	

Terminal Type	
S	
Q	

Internal Use Only

*Remarks:
Screw nut is available on request.

SB-31 Series

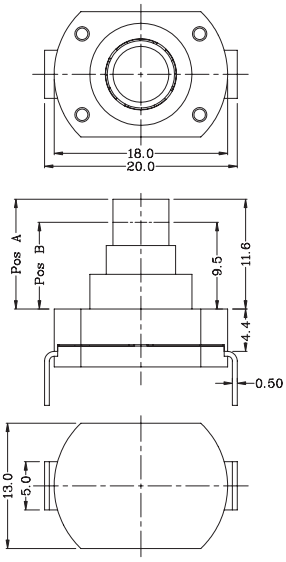
SB-31A SB-31A SB-31D SB-31D

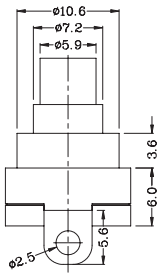
Specifications:

3A	250VAC	T85	5E4
6(3)A	250VAC	T85	
10(3)A	250VAC	T85	

3A	250VAC	T105
6A	125VAC	
7.5A	250VAC	T105
15A	125VAC	

E199326





CIRCUIT DIAGRAM

Pos.A	Pos.B
OFF	ON

SB-31

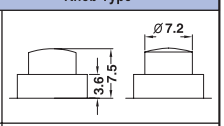
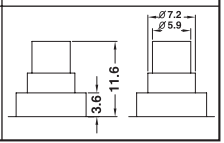
A — S — BK — BK — 2 — S — □□□□

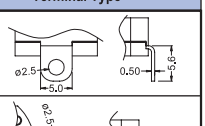
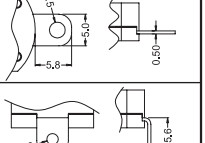
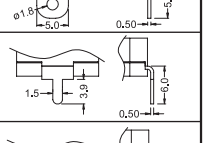
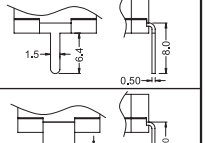
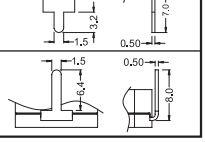
Function	
A	ON-OFF w/lock
D	(ON)-OFF

Current		
S	3A	250VAC
	6A	125VAC
H	10(3)A	250VAC
	6(3)A	250VAC 5E4
	15A	125VAC

Base Color	
BK	Black

Knob Color	
BK	Black

Knob Type	
1	
2	

Terminal Type	
S	
S1	
S2	
P	
P1	
P2	
P3	

Internal Use Only

Patent No.: 11109809.9 / 201120259986.6

SB-35A

SB-35A

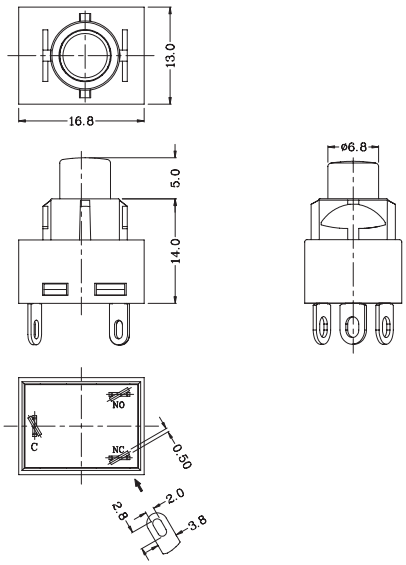
Specifications:

10(4)A	250VAC	T85	
6(3)A	250VAC	T85	5E4

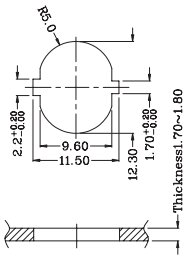
6(3)A	250VAC	T85	5E4
10(4)A	250VAC	T85	
16A GP	125VAC/250VAC	T85	

E199326

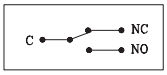
*UL61058 approved



Housing 1 suggested panel hole size



CIRCUIT DIAGRAM



SB-35

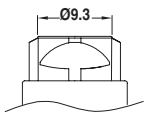
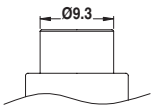
B — H — BK — BK — 1 — 1 — S — □□□□

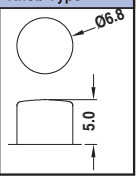
Function	
A	ON-OFF w/lock
B	ON-ON w/lock
D	(ON)-OFF
E	ON-(OFF)
F	ON-(ON)

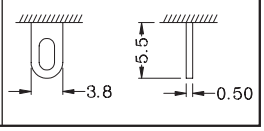
Current			
H	10(4)A	250VAC	
	6(3)A	250VAC	5E4
	16A GP	125/250VAC	

Housing Color	
BK	Black

Knob Color	
BK	Black

Housing Type	
1	
2	

Knob Type	
1	

Terminal Type	
S	

Internal Use Only

PUSH SWITCH

SB-50 Series

Patent No.: 0412263.4 / ZL 200430113084.7

SB-50A

SB-50A

SB-50A

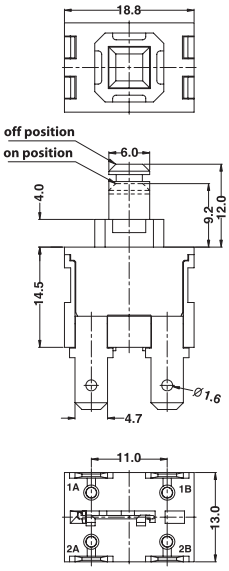
SB-50D

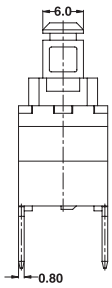
Specifications:

10(6)A	250VAC	T105	5E4
16(6)A	250VAC	T105	

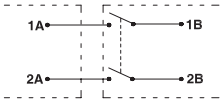
10A	250VAC	T105
16A	125VAC	
1/2HP	250VAC	T105
1/4HP	125VAC	

E199326





CIRCUIT DIAGRAM



SB-50

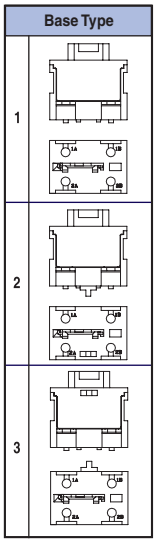
A — 2 — L — 1 — 1 — Q

Function		
A	ON-OFF w/lock	
D	(ON)-OFF	
	(ON)-OFF w/sound	

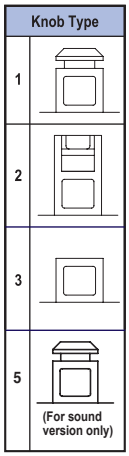
No. of Poles	
1	Single
2	Double

Current	
L	16(6)A 250VAC
	10(6)A 250VAC 5E4
	16A 125VAC
	1/2HP 250VAC
	1/4HP 125VAC

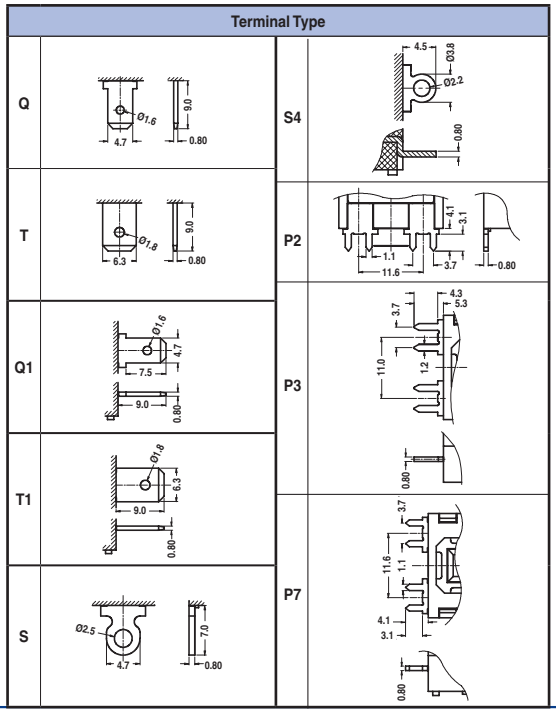
Base Type



Knob Type



Terminal Type



Internal Use Only

Patent No.: 0412264.6 / ZL 200430113085.1 / US D511,504S

SB-52A

SB-52A

SB-52N

SB-52A(2)

SB-52A(6)

SB-52N(6)

SB-52 Cap

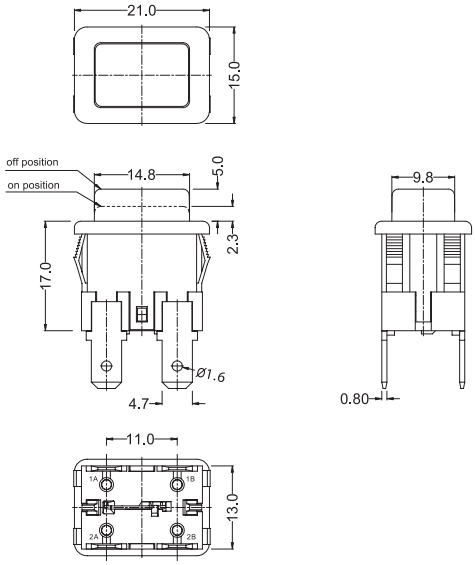
Specifications:

10(6)A 250VAC T105 5E4
16(6)A 250VAC T105
IP65 waterproof protection for button type no.6 (SGS approved)

10A 250VAC T105
16A 125VAC
1/2HP 250VAC T105
1/4HP 125VAC

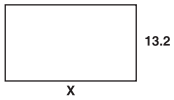
E199326

For A, D, N functions only

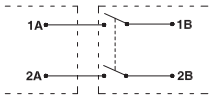


Suggested panel hole size

Panel thickness	X
0.75~1.25	19.2
1.25~2.0	19.4
2.0~3.0	19.6



CIRCUIT DIAGRAM



SB-52

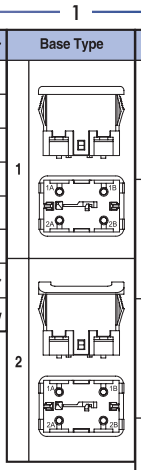
A — 2 — L — BK — BK — 1 — 1 — 0 — 0 — Q — 0 — □□□□

Function		No. of Poles	
A	ON-OFF w/lock	1	Single
D	(ON)-OFF	2	Double
	(ON)-OFF w/sound		
N	ON-OFF w/lamp		
R	(ON)-OFF w/lamp		

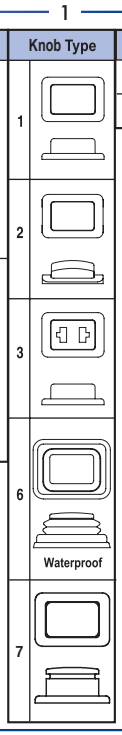
	Current
L	16(6)A 250VAC
	10(6)A 250VAC 5E4
	16A 125VAC
	1/2HP 250VAC
	1/4HP 125VAC
	(For A, D, N functions only)
L	16(6)A 250VAC
	10(6)A 250VAC 5E4
	(For R function only)

Base Color		Knob Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Base Type



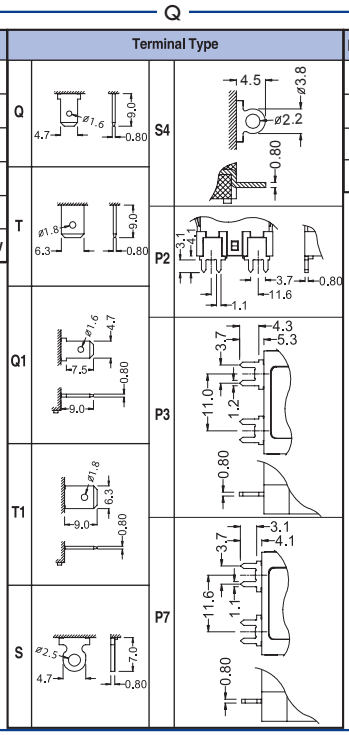
Knob Type



Printing	
0	None
1	⏻

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Terminal Type



Lamp Voltage	
0	None
1	12V
3	110V
4	220V

Internal Use Only

SB-53 Series

Patent No.: 0900726.9M004 / 200930188396.7

SB-53A | SB-53N | SB-53N | SB-53N | SB-53N(2) | SB-53N(3)

Specifications:

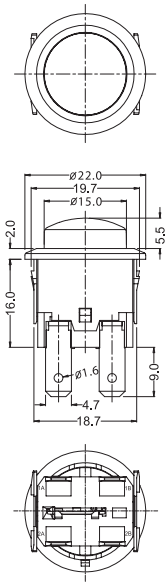
8(8)A	250VAC	T85/55	5E4
8(8)A	250VAC	T125/55	
16(6)A	250VAC	T105/55	

IP65 waterproof protection for button type no.2 (SGS approved)

8(8)A	250VAC	T85/55	5E4
16(6)A	250VAC	T105/55	
16(6)A	125VAC	T105/55	
1/2 HP	250VAC	T105/55	
1/4 HP	125VAC	T105/55	

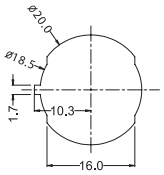
E199326

*UL61058 approved

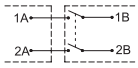


Suggested panel hole size

Panel thickness
2.0
3.0



CIRCUIT DIAGRAM

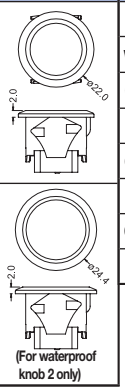


SB-53

A — 2 — L — 1 — BK — BK — 1 — 0 — 0 — Q — 0 — □□□□

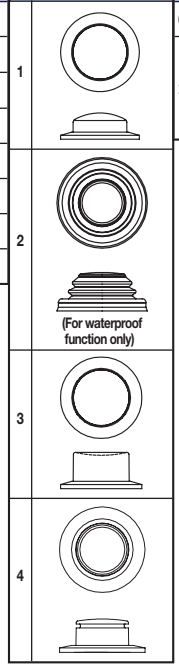
Function		No.of Poles		Current	
A	ON-OFF w/lock	1	Single	L	16(6)A 125/250VAC
D	(ON)-OFF	2	Double		8(8)A 250VAC 5E4
N	ON-OFF w/lamp				8(8)A 250VAC
					1/2HP 250VAC
					1/4HP 125VAC

Base Type



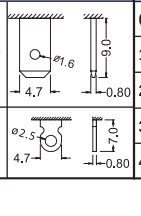
Base Color		Knob Color	
BK	Black	BK	Black
WT	White	WT	White
GE	Grey	GE	Grey
RE	Red	RE	Red
GR	Green	GR	Green
BL	Blue	BL	Blue
OR	Amber	OR	Amber
YE	Yellow	YE	Yellow

Knob Type



Printing		Color of Printing	
0	None	0	None
1	⏻	1	White
		2	Black
		3	Red
		4	Blue
		5	Yellow

Terminal Type



Lamp Voltage	
0	None
1	12V
2	24V
3	110V
4	220V

Internal Use Only

SB-60 Series

SB-60N

SB-60A

SB-60N w/Bezel

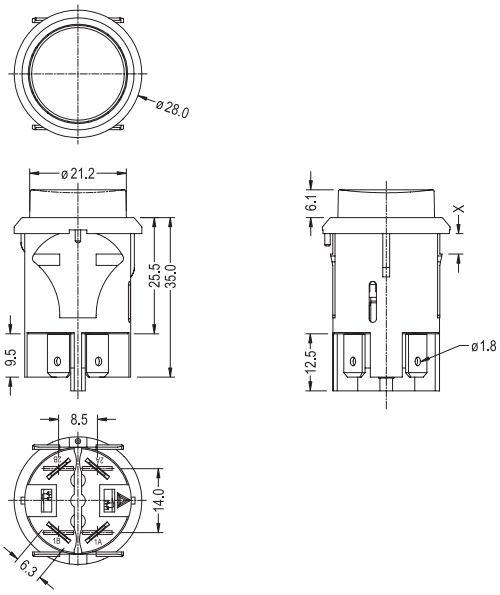
SB-60 Cap

Specifications:

8(8)A	250VAC	T105/55	5E4
16(8)A	250VAC	T105/55	

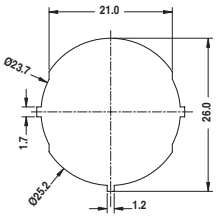
16A	250VAC	T105
16A	125VAC	
1HP	250VAC	T105
1/2HP	125VAC	

E199326

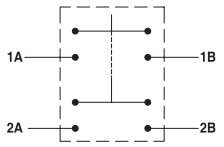


Suggested panel hole size

Panel thickness	X
0.70~3.50	3.5
0.70~4.50	4.5



Best performance for Panel thickness at 3.0~3.5mm for 3.5mm; 4.0~4.5mm for 4.5mm.

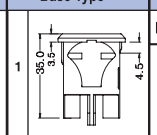
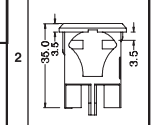
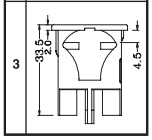


CIRCUIT DIAGRAM

SB-60

A — 2 — H — 1 — BK — BK — 1 — 0 — 0 — T — 0 — ☐☐☐☐

Function		No. of Poles		Current	
A	ON-OFF w/lock	1	Single	H	16(8)A 250VAC
D	(ON)-OFF	2	Double		8(8)A 250VAC 5E4
N	ON-OFF w/lamp				16A 125VAC
					1HP 250VAC
					1/2HP 125VAC

Base Type	
1	
2	
3	

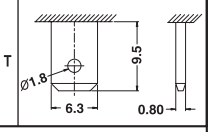
Base Color	
BK	Black

Knob Color	
BK	Black
WT	White
GE	Grey
RE	Red
GR	Green
BL	Blue
OR	Amber
YE	Yellow

Knob Type	
1	

Printing	
0	None
1	⏻
2	ON OFF
3	OFF ON
4	OFF ON
5	

Color of Printing	
0	None
1	White
2	Black
3	Red
4	Blue
5	Yellow

Terminal Type	
T	

Lamp Voltage	
0	None
1	12V
2	24V
3	110V
4	220V

Internal Use Only

Patent No.: 0500971.3 / ZL200530016183.8

SB-70

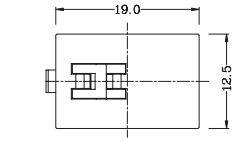
SB-70

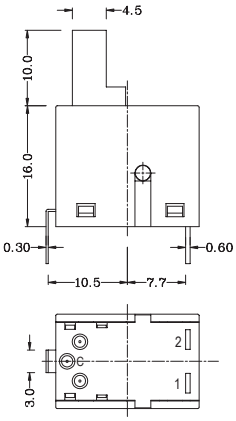
Specifications:

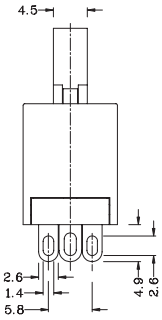
6(4)A	250VAC	T85	5E4
10(3)A	250VAC	T85	

6.5A	250VAC	T85
13A	125VAC	

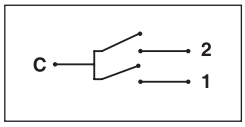
E199326







CIRCUIT DIAGRAM



SB-70

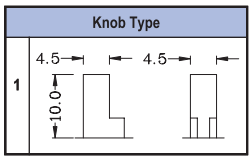
2 — H — BK — BK — 1 — S — □□□□

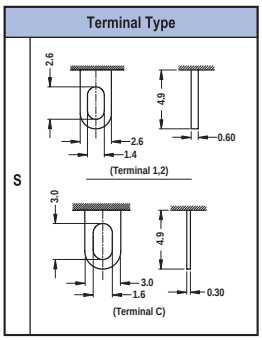
Circuit	
1	01
2	02
3	03
More	

Current	
H	10(3)A 250VAC
	6(4)A 250VAC 5E4
	13A 125VAC

Base Color	
BK	Black

Knob Color	
BK	Black

Knob Type	
1	

Terminal Type	
S	

Internal Use Only

CIRCUIT OPTIONS:

CIRCUIT: 01

POSITION	ELECTRIC CIRCUIT	
	C-1	C-2
1		
2	●	●
3		●

***CIRCUIT: 02**

POSITION	ELECTRIC CIRCUIT	
	C-1	C-2
1		
2	●	
3		●

***CIRCUIT: 03**

POSITION	ELECTRIC CIRCUIT	
	C-1	C-2
1		
2	●	
3	●	●

For more circuit options, please call factory
***With production mould.**

PUSH SWITCH

SB-80V

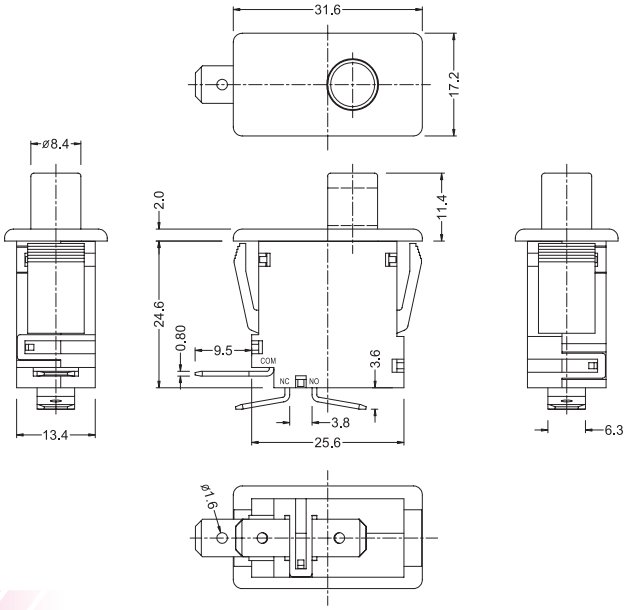
SB-80D

Specifications:

6(3)A	250VAC	40T85	5E4
10(4)A	250VAC	40T85	

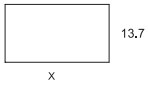
10A	250VAC	T105
16A	125VAC	
1/3HP	125/250VAC	T105

E199326



Suggested panel hole size

Panel thickness	X
0.75~1.25	28.3
2.0~2.5	28.5



SB-80

F — L — 1 — WT — WT — T — □□□□

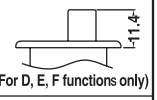
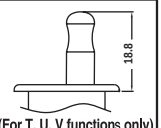
Function

D	(ON)-OFF
E	ON-(OFF)
F	ON-(ON)
T	OFF-$(ON)_{NO}$-ON_{NO} W/Pull up lock
U	ON_{NC}-(OFF)-OFF W/Pull up lock
V	ON_{NC}-$(ON)_{NO}$-ON_{NO} W/Pull up lock

Current

L	10(4)A	250VAC	
	6(3)A	250VAC	5E4
	16A	125VAC	
	1/3HP	125/250VAC	

Knob Type

1		(For D, E, F functions only)
4		(For T, U, V functions only)

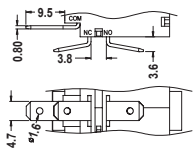
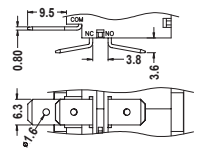
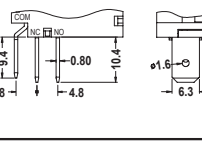
Housing Color

WT	White

Knob Color

WT	White

Terminal Type

Q	
T	
T3	

Internal Use Only

Note:
NO: Normally open
NC: Normally close

PUSH SWITCH

SM-31 Series

SM-31D

SM-31F

SM-31E

SM-31D

SM-31E

SM-31F

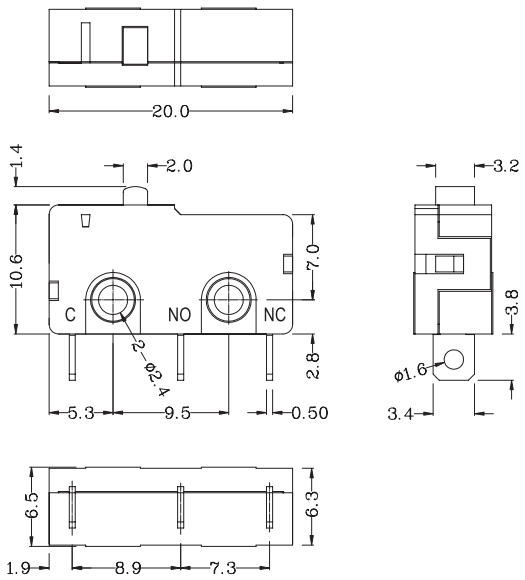
SM-31F

Specifications:

3(1)A	250VAC	T125	5E4
3(3)A	250VAC	T85	
8(2)A	250VAC	T125	

3A	250VAC	T125
6A	125VAC	
8A	250VAC	T125
15A	125VAC	
1/3HP	250VAC	T125
1/6HP	125VAC	

E199326



SM-31

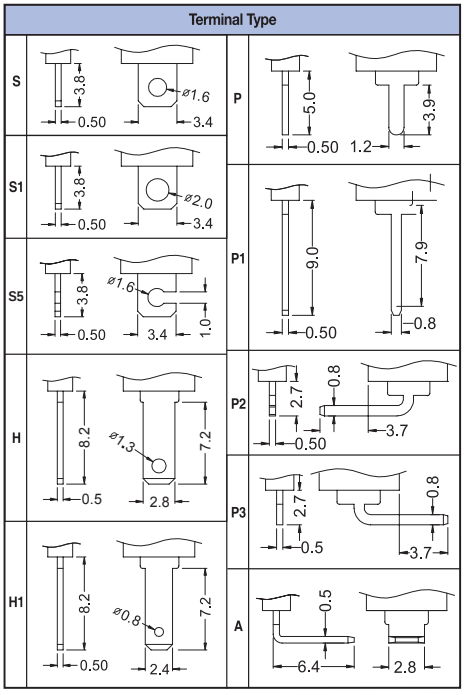
F — S — BK — S — O

Function	
D	(ON)-OFF
E	ON-(OFF)
F	ON-(ON)

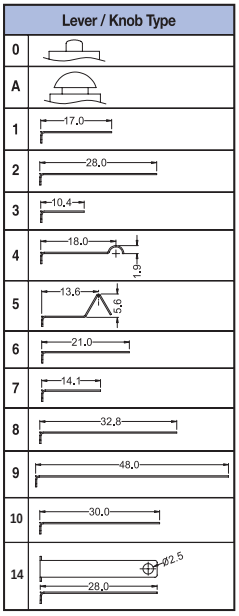
Current	
S	3(1)A 250VAC
	3(3)A 250VAC 5E4
	6A 125VAC
H	8(2)A 250VAC
	3(3)A 250VAC 5E4
	15A 125VAC
	1/3HP 250VAC
	1/6HP 125VAC

Base Color	
BK	Black

Terminal Type



Lever / Knob Type



*For more lever options, please contact us.

Internal Use Only

*Operating force measured at the knob.

SM-33D

SM-33F(W1)

SM-33E(W1)

SM-33F(W2)

SM-33F(W2)

SM-33D

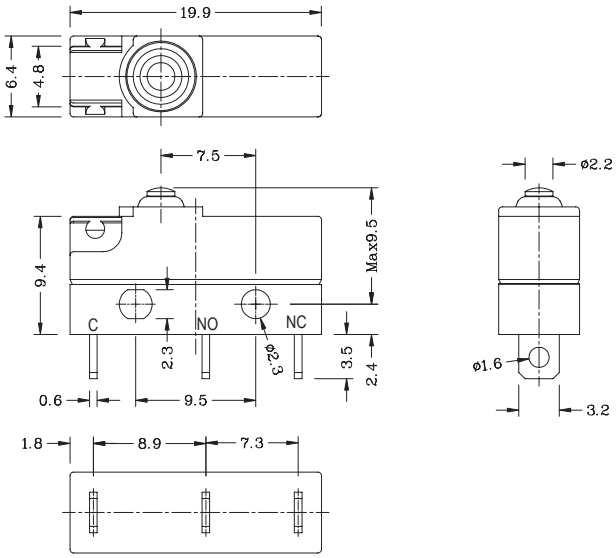
Specifications:

3(1)A	250VAC	T85	
3(3)A	250VAC	T85	5E4
8(2)A	250VAC	25T85	
8(2)A	250VAC	40T105	

IP55 waterproof protection for housing type no.W1 (KEMA, ENEC approved)
IP67 waterproof protection for housing type no.W2 (KEMA, ENEC approved)

3A	250VAC	T105
6A	125VAC	
6A	250VAC	T105
12A	125VAC	
8A	250VAC	T105
15A	125VAC	
1/3HP	250VAC	T105
1/6HP	125VAC	

E199326



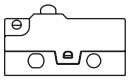
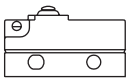
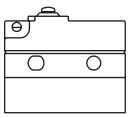
SM-33

F — S — 3 — W1 — BK — S — 0 — □□□□

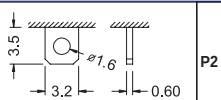
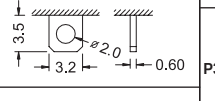
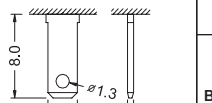
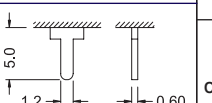
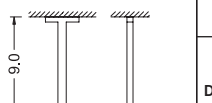
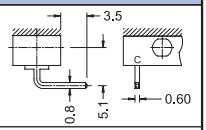
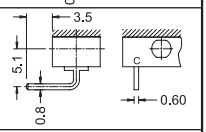
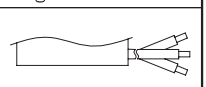
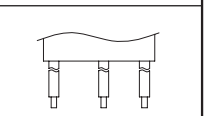
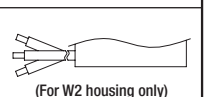
Function	
D	(ON)-OFF
E	ON-(OFF)
F	ON-(ON)

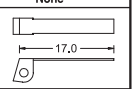
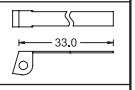
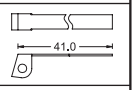
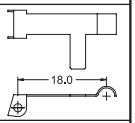
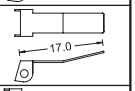
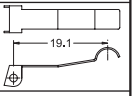
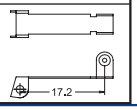
Current		
S	3(1)A	250VAC
	6A	125VAC
M	8(2)A	250VAC
	12A	125VAC
L	8(2)A	250VAC
	3(3)A	250VAC 5E4
	15A	125VAC
	1/3HP	250VAC
	1/6HP	125VAC

*Operating Force Options	
1	60g.f
2	100g.f
3	150g.f
4	200g.f

Housing Type		
1		Standard
W1		Waterproof
W2		Waterproof

Housing Color	
BK	Black

Terminal Type		
S		
S2		
H		
P		
P1		
P2		
P3		
B		(For W2 housing only)
C		(For W2 housing only)
D		(For W2 housing only)

Lever	
0	None
1	
3	
4	
7	
9	
10	
14	

Internal Use Only

* 60g.f not apply to L Rating
* Operating force measured at the knob

MICRO SWITCH

SM-51 Series

SM-51F

SM-51D

SM-51F

SM-51D

SM-51E

SM-51F

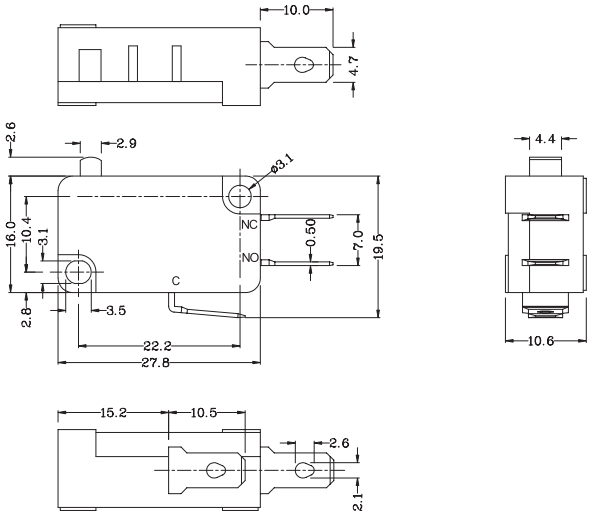
Specifications:

16(4)A 250VAC T125
15A 250VAC T125
(≥3mm contact gap available on request)

10.1A 250VAC T125
16A 125VAC
10.1A 250VAC T125
20A 125VAC
1/4 HP 125/250VAC T125
3/4 HP 125/250VAC T125
1/2 HP 125/250VAC T125

E199326

*UL61058 approved

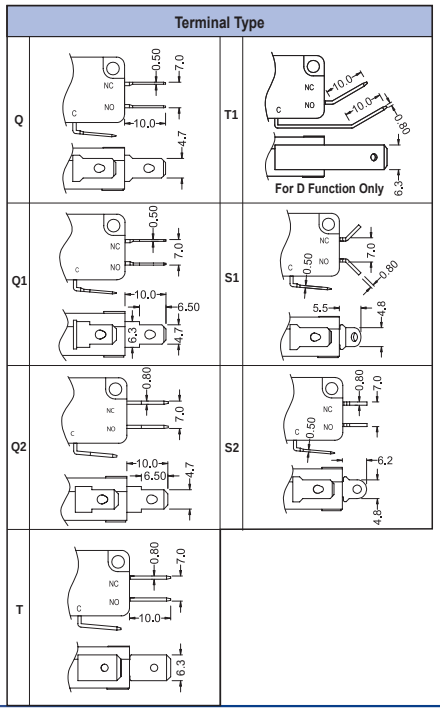


SM-51

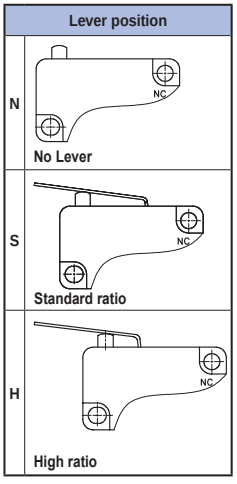
F — H — Q — N — 0 — □□□

Function		Current		Base Color	
D	(ON)-OFF	H	16(4)A 250VAC	BK	Black
E	ON-(OFF)		16A 125VAC		
F	ON-(ON)	L	16(4)A 250VAC		
			20A 125VAC		

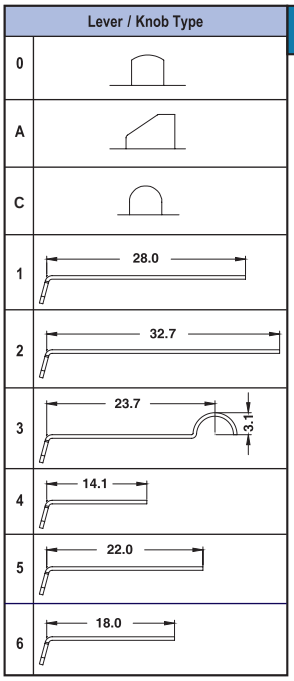
Terminal Type



Lever position



Lever / Knob Type



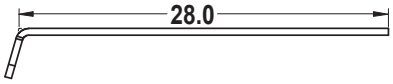
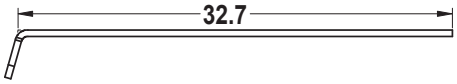
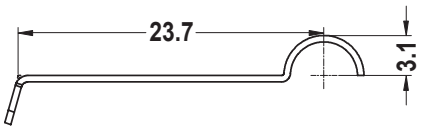
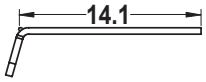
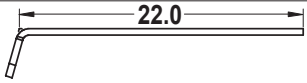
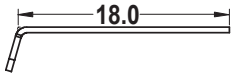
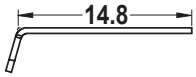
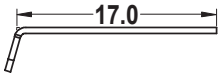
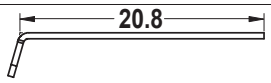
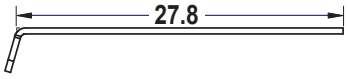
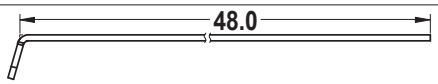
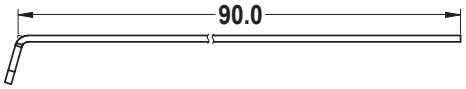
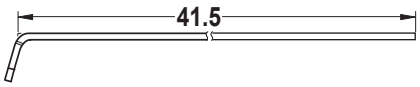
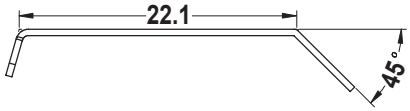
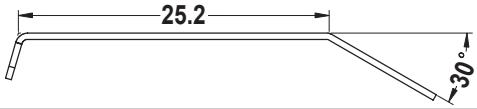
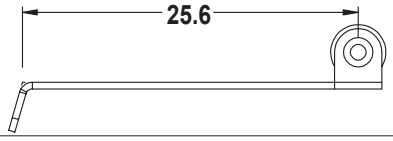
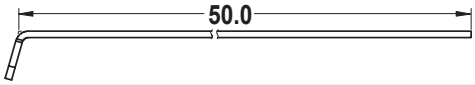
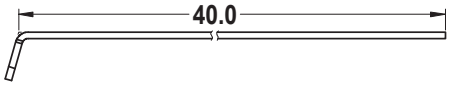
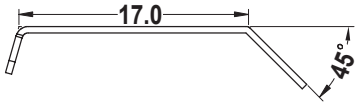
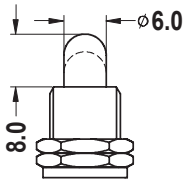
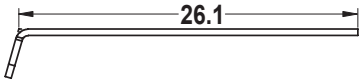
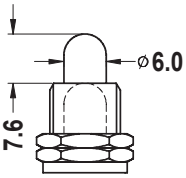
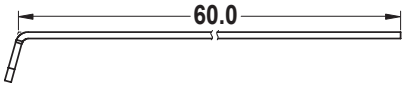
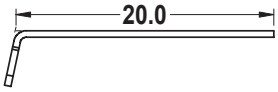
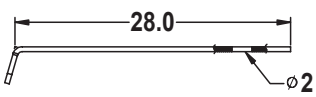
Internal Use Only

*Operating force measured at the knob.

*For more lever options, please see next page.

MICRO SWITCH

Lever / Special Knob Type

0	
A	
C	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
17	
18	
19	
20	
22	
24	
25	
26	
29	
33	

MICRO SWITCH

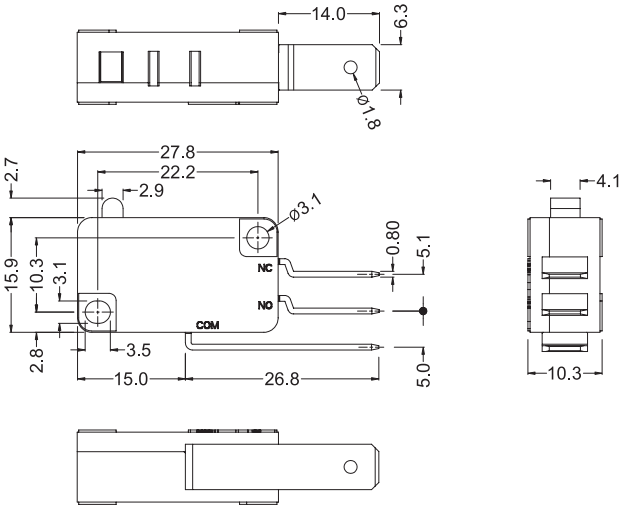
SM-52F

Specifications:

5(1)A	250VAC	40T125	5E4
8(3)A	250VAC	T125	1E4
5(1)A	250VAC	T125	1E5
0.1A	30VDC	40T125	1E5

5(1)A	125/250VAC	40T125	5E4
8(3)A	125/250VAC	T125	1E4
10A GP	125VAC	T125	6E3 1E4
5(1)A	125/250VAC	T125	1E5
0.1A	30VDC	40T125	1E5

(UL61058 approved)



SM-52

F — L — 1 — BK — T2 — N — O — □□□□

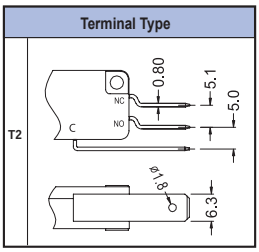
Function	
D	(ON)-OFF
E	ON-(OFF)
F	ON-(ON)

Current			
L	5(1)A	125/250VAC	5E4
	5(1)A	125/250VAC	1E5
	0.1A	30VDC	1E5
	8(3)A	125/250VAC	
	10A GP	125VAC	

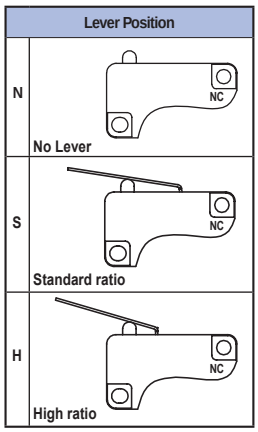
*Operating Force Options	
1	Max.15g.f
2	Max.45g.f

Base Color	
BK	Black

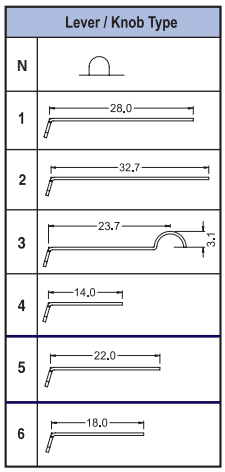
Terminal Type



Lever Position



Lever / Knob Type



Internal Use Only

*Operating force measured at the knob.

MICRO SWITCH

SM-53F

SM-53D

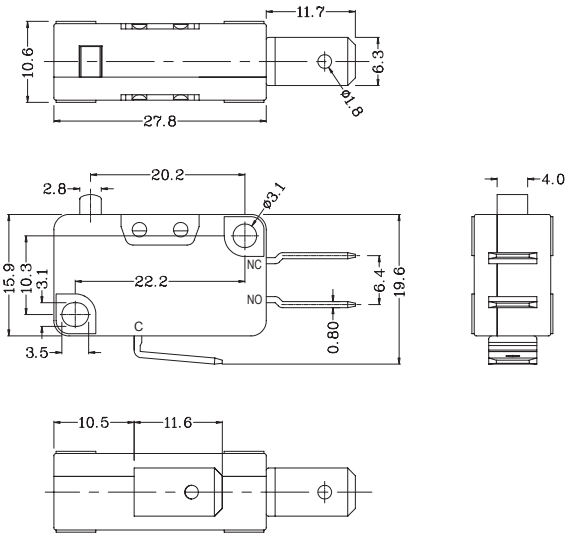
Specifications:

10(4)A	250VAC	T105	5E4	CQC, 05, KEMA EUR, K
16(8)A	250VAC	40T105		

11A	250VAC	T105	UL c UL E199326
16A	125VAC		
11A	250VAC	T105	
20A	125VAC		
1/2HP	250VAC	T105	
1/4HP	125VAC		

3/4HP	250/125VAC	T105	6E3	UL c UL E199326
10(4)A	250/125VAC	T105	1E5	

*UL 61058 approved



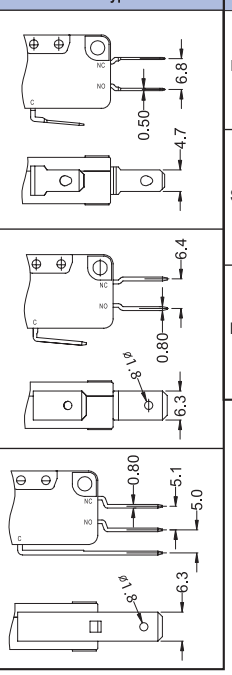
SM-53

F — H — 5 — BK — T — N — 0 — □□□

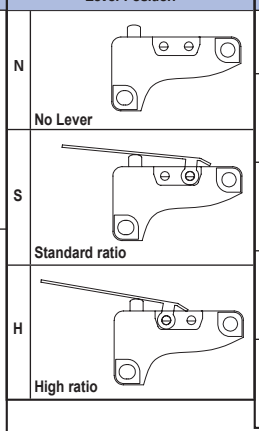
Function		Current		*Operating Force Options	
D	(ON)-OFF	H	16(8)A 250VAC	1	60 g.f
E	ON-(OFF)		10(4)A 250VAC 5E4	2	100 g.f
F	ON-(ON)		16A 125VAC	3	150 g.f
		L	16(8)A 250VAC	4	200 g.f
			10(4)A 250VAC 5E4	5	250 g.f
			20A 125VAC	6	350 g.f
			1/2HP 250VAC		
			1/4HP 125VAC		

Base Color	
BK	Black

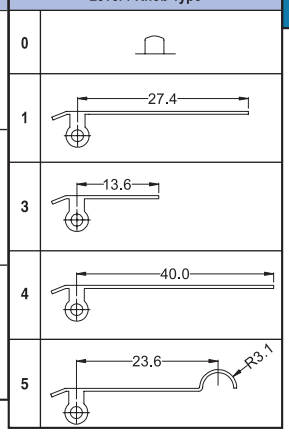
Terminal Type



Lever Position



Lever / Knob Type

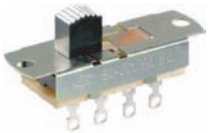


Internal Use Only

* 60g.f not apply to L rating
* Operating force measured at the knob

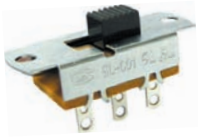
MICRO SWITCH

SL-001-23


SL-001-13

SL-001-14

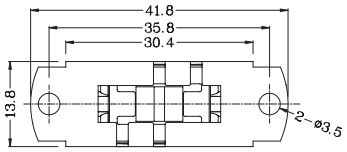
SL-001-24

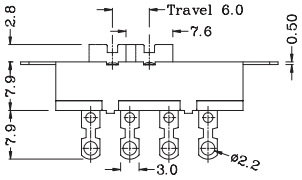

SL-001-12

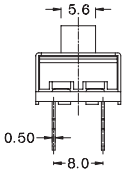
Specifications:

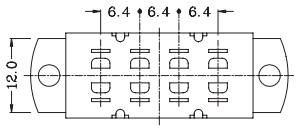
6.5A	250VAC	T125
13A	125VAC	
8A	250VAC	T125
16A	125VAC	

E199326







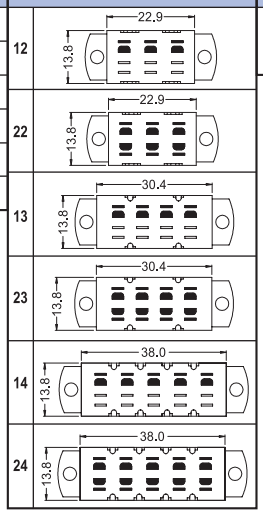


SL-001

23 — L — 1 — 1 — L

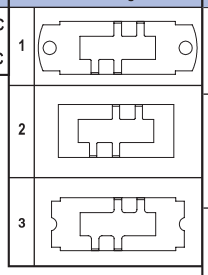
Circuit	
12	1P2T
22	2P2T
13	1P3T
23	2P3T
14	1P4T
24	2P4T

Ref: Base Dimension

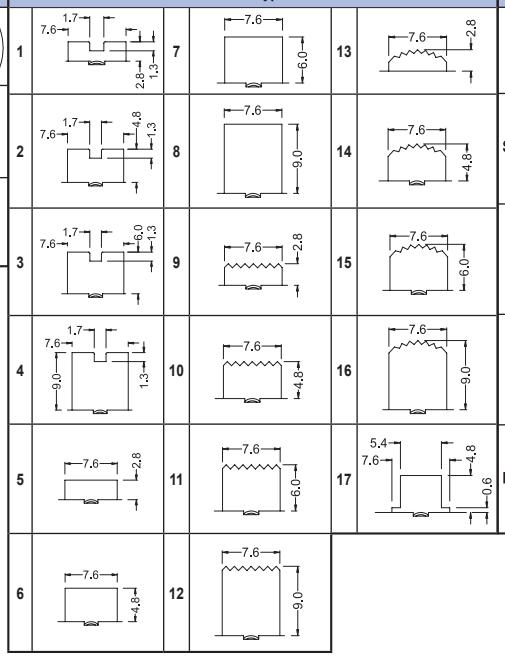


Current	
L	8A 250VAC
	16A 125VAC

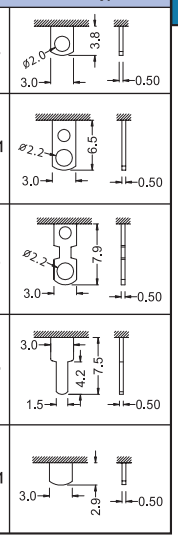
Mounting



Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

Patent No.: 14106580.7 / 201420356028.4

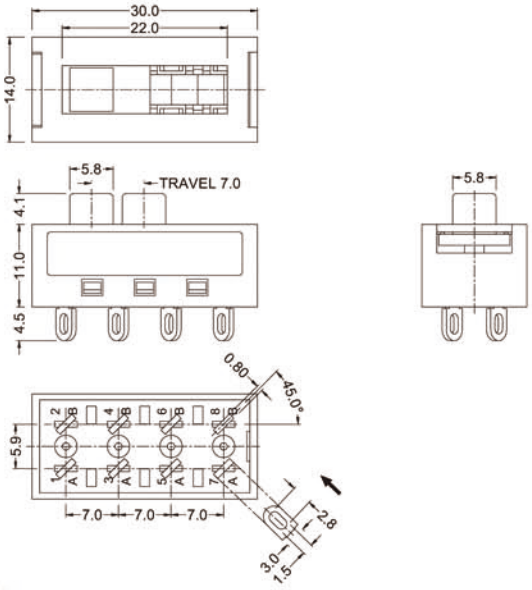
SL-101-12 | SL-101-13 | ★SL-101-13 | SL-101-14 | SL-101-21 | SL-101-23

Specifications:

8(3)A	250VAC	T125
10(2)A	250VAC	T85

8A	250VAC	T125
16A	125VAC	

E199326

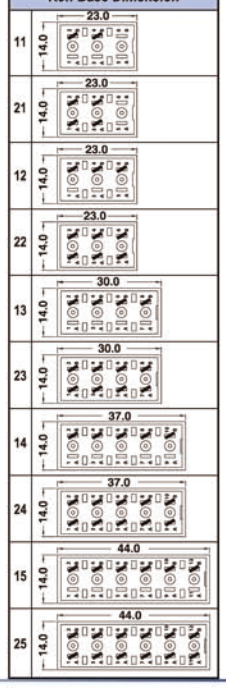


SL-101

23 — L — 8 — S

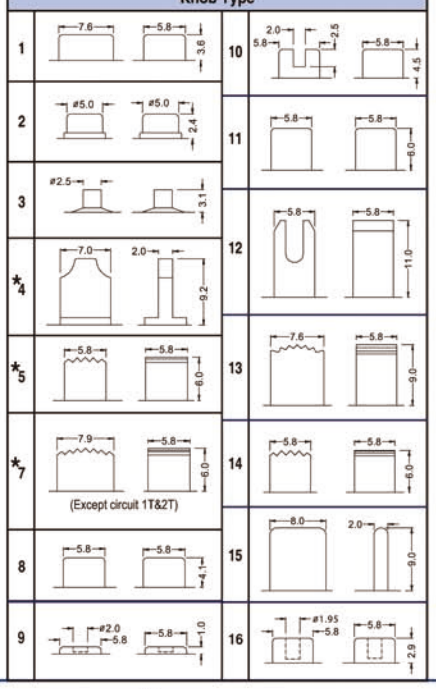
Circuit	
11	1P1T
21	2P1T
12	1P2T
22	2P2T
13	1P3T
23	2P3T
14	1P4T
24	2P4T
15	1P5T
25	2P5T

Ref: Base Dimension

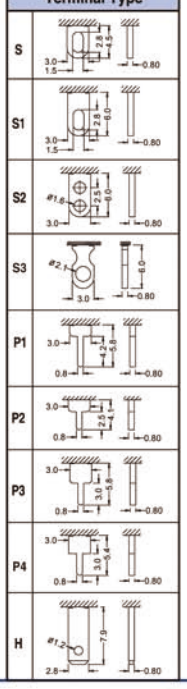


Current	
L	8(3)A 250VAC
	10(2)A 250VAC
	16A 125VAC

Knob Type



Terminal Type



Internal Use Only

*Extension of knob wings available

SLIDE SWITCH

Patent No.: 14106580.7 / 201420356028.4

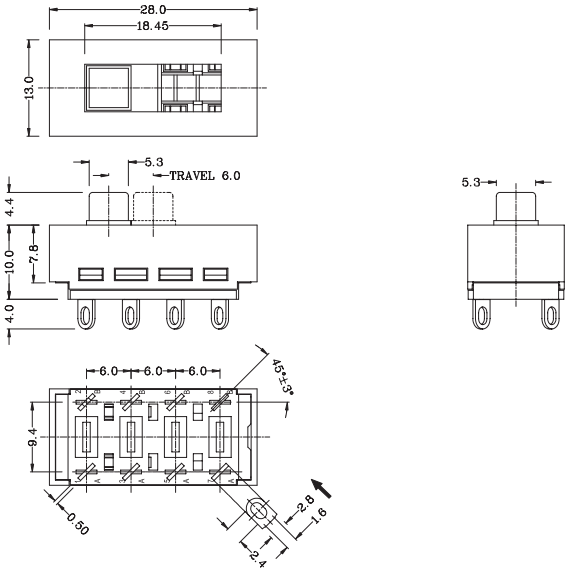
SL-102-11 SL-102-12 SL-102-21 SL-102-22 SL-102-23 SL-102-24

Specifications:

10(2)A 250VAC T85

8A 250VAC T125
16A 125VAC

E199326



SL-102

23 — L — 2 — S

Circuit	
11	1P1T
21	2P1T
12	1P2T
22	2P2T
13	1P3T
23	2P3T
14	1P4T
24	2P4T

Ref: Base Dimension	
11	22.0 / 13.0
21	22.0 / 13.0
12	22.0 / 13.0
22	22.0 / 13.0
13	28.0 / 13.0
23	28.0 / 13.0
14	34.0 / 13.0
24	34.0 / 13.0

Current	
L	10(2)A 250VAC
	16A 125VAC

Knob Type	
1	ø4.8 / 4.7
2	5.3 / 4.4
3	2.0 / 6.0 / 5.4

Terminal Type	
S	2.8 / 1.6 / 2.4 / 4.0 / 0.50
S1	2.8 / 1.6 / 3.4 / 5.0 / 0.50
P1	2.8 / 2.0 / 0.50

Internal Use Only

SLIDE SWITCH

Patent No.: 14106580.7 / 201420356028.4

SL-103-23

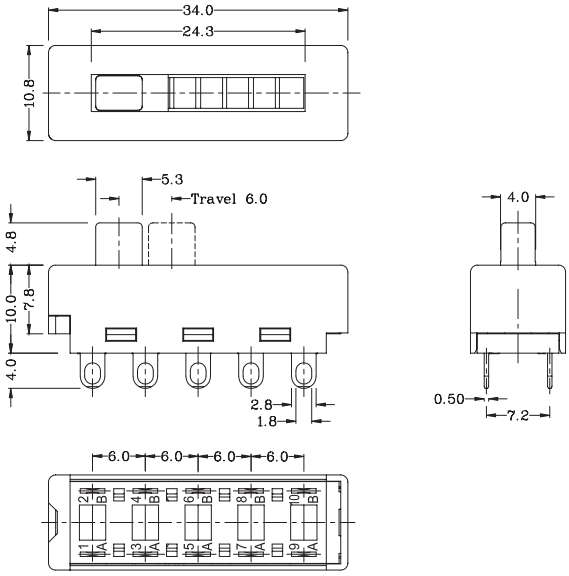
SL-103-24

Specifications:

10A 250VAC T85

8A 250VAC T105
16A 125VAC

E199326

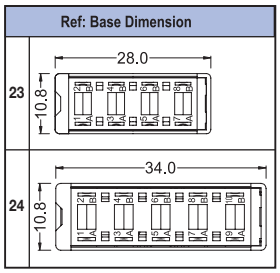


SL-103

24 — L — 1 — S — □□□□

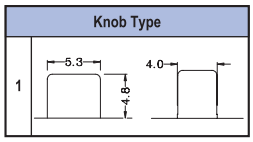
Circuit	
23	2P3T
24	2P4T

Ref: Base Dimension

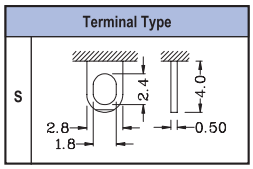


Current	
L	10A 250VAC 16A 125VAC

Knob Type



Terminal Type



Internal Use Only

Patent No.: 14106580.7 / 201420356028.4

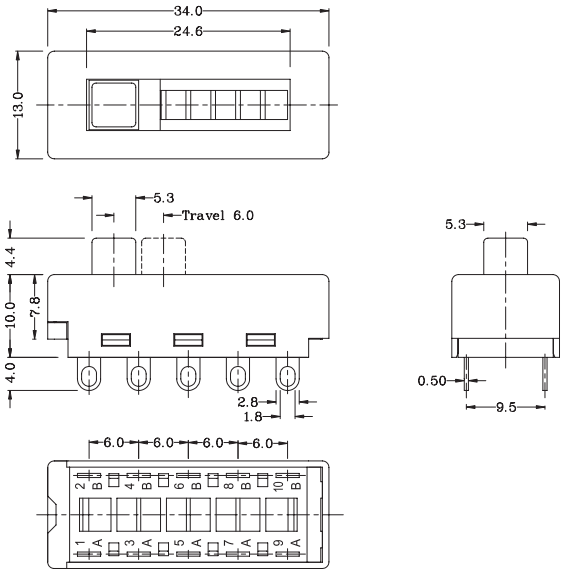
SL-105-24

Specifications:

10(2)A	250VAC	T85	10(2)A	125VAC/250VAC	T85
			16A GP	125VAC	T85

4006154

*UL61058 approved

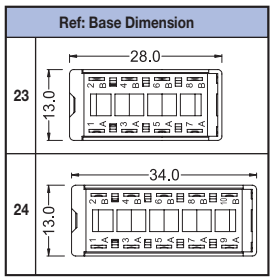


SL-105

24 — L — 1 — S — □□□□

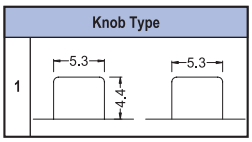
Circuit	
23	2P3T
24	2P4T

Ref: Base Dimension

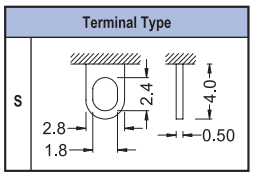


Current	
L	10(2)A 250VAC 16AGP 125VAC

Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

SL-301

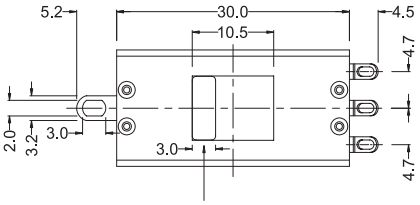
SL-301

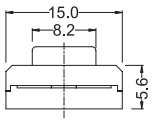
Specifications:

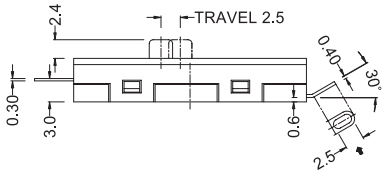
8(2)A 250VAC T85

6.5A	250VAC	T125
13A	125VAC	
7.5A	250VAC	T125
15A	125VAC	

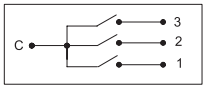
E199326

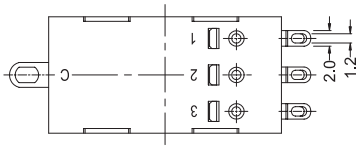






CIRCUIT DIAGRAM

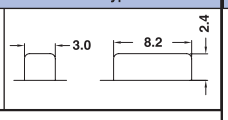




SL-301

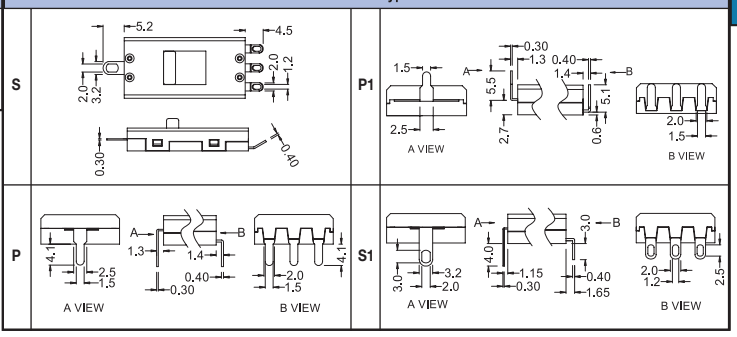
001 — L — 1 — S — □□□□

Circuit	Current		Knob Type
001	L	8(2)A 250VAC	1
003		15A 125VAC	
005			
006			
007			
009			
010			
011			
012			
More			



Terminal Type

Internal Use Only



Circuit Options:

★CIRCUIT:001

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		
3		●	
4			●

★CIRCUIT:003

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3		●	●
4	●	●	●

★CIRCUIT:005

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3	●	●	
4	●		●

★CIRCUIT:006

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		●
3		●	●
4			●

★CIRCUIT:007

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		
3	●	●	
4		●	

★CIRCUIT:009

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		
3		●	●
4			●

★CIRCUIT:010

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3	●	●	
4	●		

★CIRCUIT:011

POSITION	ELECTRIC CIRCUIT		
		C-2	C-3
1			
2			●
3		●	●
4		●	●

★CIRCUIT:012

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	
1			
2	●		
3		●	
4			

★CIRCUIT:016

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	
1			
2			
3		●	
4	●	●	

★CIRCUIT:017

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1	●		
2	●	●	●
3	●	●	
4			

★CIRCUIT:019

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1	●		
2	●	●	●
3		●	
4			

★CIRCUIT:021

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		
3		●	
4	●		●

★CIRCUIT:024

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3		●	
4	●	●	●

★CIRCUIT:025

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1	●	●	●
2	●	●	
3	●		
4			

★CIRCUIT:032

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1	●	●	●
2	●	●	
3	●		●
4			

*With production mould
For more circuit options, please call factory.

SLIDE SWITCH

Patent No.: 0900726.9M001 / 200930188377.4

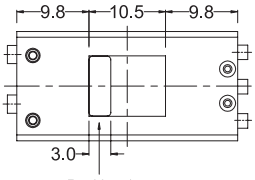
SL-302

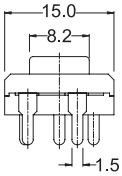
Specifications:

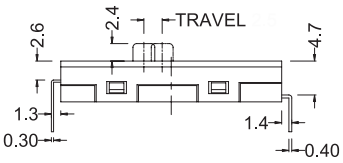
8(2)A 250VAC T85

7.5A 250VAC T105
15A 125VAC

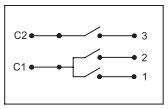
E199326

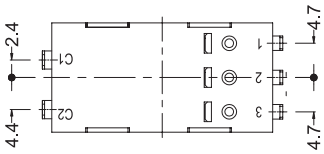






CIRCUIT DIAGRAM





SL-302

001 — L — 2 — 1 — P — □□□□

Circuit
001
003
102
103
502
503
512
More

Current		
L	8(2)A	250VAC
	15A	125VAC

Base Type

1# — 5.5 — For 2 position

2# — 10.5 — For 4 position

3# — 8.0 — For 3 position

Knob Type

1 — 3.0 — 8.2 — 2.4

Terminal Type

S

P — A VIEW — B VIEW

Internal Use Only

SLIDE SWITCH

Circuit Options:

* Circuit:001

POSITION	ELECTRIC CIRCUIT		
	C1-1		C2-3
1			
2	●		●

* Circuit:003

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●	●	●

* Circuit:102

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●	●	●
3		●	●

* Circuit:103

POSITION	ELECTRIC CIRCUIT		
	C1-1		C2-3
1			
2	●		●
3			●

* Circuit:502

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●	●	●
3		●	●
4			●

* Circuit:503

POSITION	ELECTRIC CIRCUIT		
		C1-2	C2-3
1			
2		●	●
3		●	●
4			●

* Circuit:512

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			●
2	●	●	
3	●		
4			

*With production mould
For more circuit options, please call factory.

Patent No.: 0900726.9M002 / 200930188378.9

SL-303

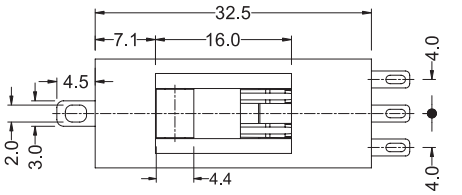
SL-303

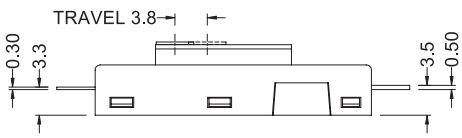
Specifications:

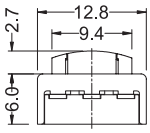
6(2)A	250VAC	T85	5E4
10(3)A	250VAC	T85	

7.5A	250VAC	T105
15A	125VAC	

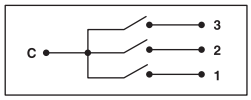
E199326

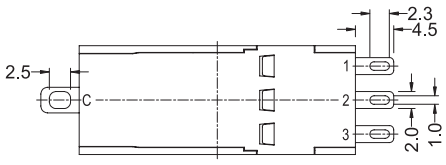






CIRCUIT DIAGRAM



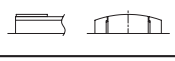


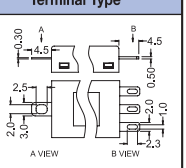
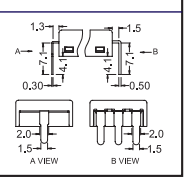
SL-303

001 — L — 1 — S — □□□□

Circuit
001
003
005
012
015
017
023
029
More

	Current
L	10(3)A 250VAC
	6(2)A 250VAC 5E4
	15A 125VAC

	Button Type
1	

	Terminal Type
S	
P	

Internal Use Only

Circuit Options

* Circuit:001

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		
3		●	
4			●

* Circuit:003

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3		●	●
4	●	●	●

* Circuit:005

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3	●	●	
4	●		●

* Circuit:012

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●		
3		●	
4			

* Circuit:015

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3			●
4	●		●

* Circuit:017

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2	●	●	
3	●	●	●
4	●		

* Circuit:023

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			
3		●	
4	●	●	

* Circuit:029

POSITION	ELECTRIC CIRCUIT		
	C-1	C-2	C-3
1			
2			●
3	●		
4	●		●

*With production mould
For more circuit options, please call factory.

SLIDE SWITCH

SL-305

SL-305

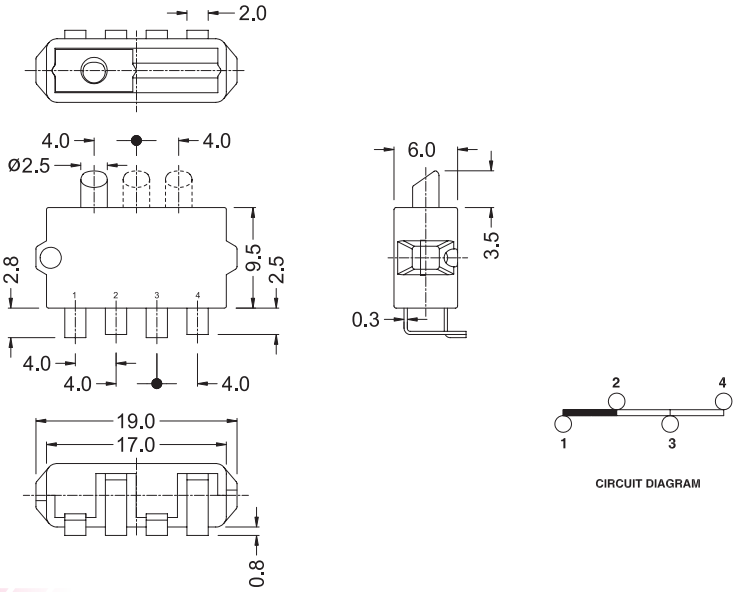
SL-305

Specifications:

3.5A 250VAC T85

3.5A 250VAC T105
3.5A 125VAC

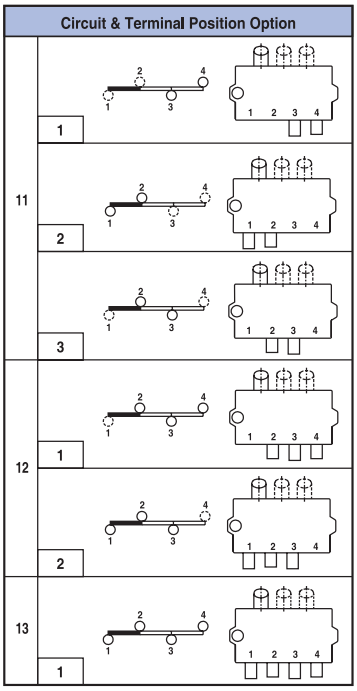
E199326



SL-305

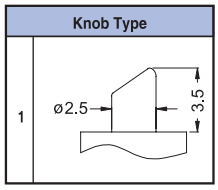
13 — L — 1 — P1 — ☐☐☐☐

Circuit & Terminal Position Option

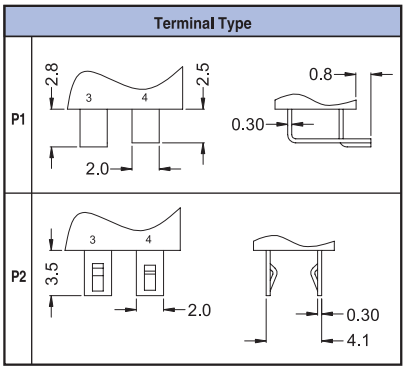


Current		
L	3.5A	250/125VAC
	3.5A	250VAC

Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

SL-306

SL-306

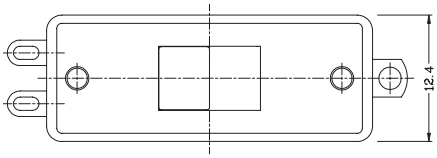
Specifications:

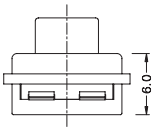
16(3)A 250VAC T85

16(3)A 125VAC/250VAC T85

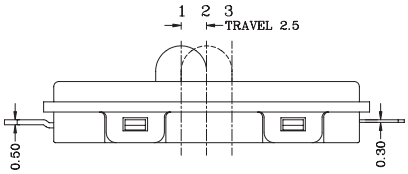
Intertek 4006154

*UL61058 approved

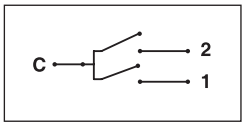


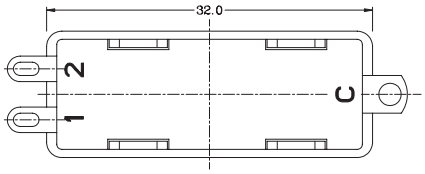


Position



CIRCUIT DIAGRAM





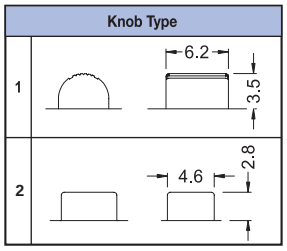
SL-306

001 — L — 1 — S1 — □□□□

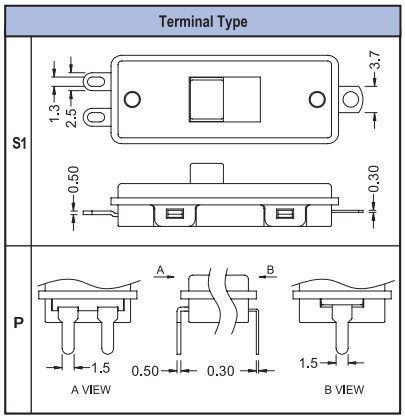
Circuit
001
More

Current	
L	16(3)A 250VAC

Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

Circuit Options

*Circuit :001

POSITION	ELECTRIC CIRCUIT	
	C-1	C-2
1		
2	●	
3	●	●

*With production mould
For more circuit options, please call factory.

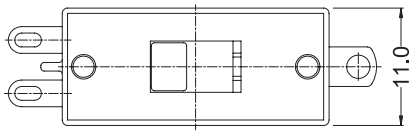
SL-308

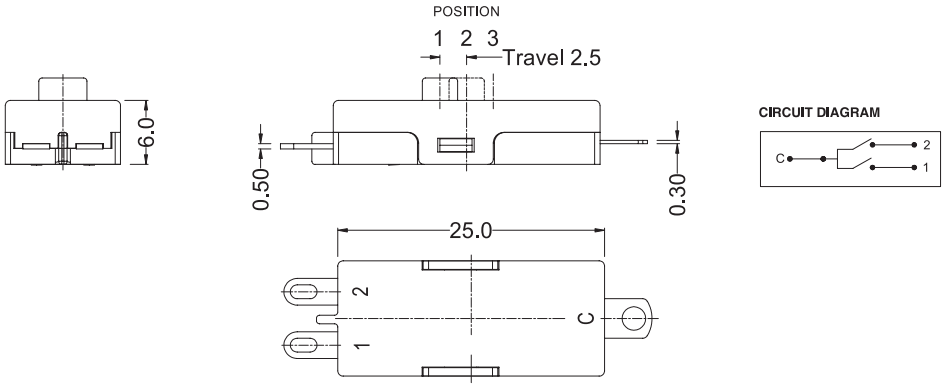
Specifications:

5(2)A	250VAC	T85	5(2)A	125VAC/250VAC	T85
			10A GP	125VAC	T85

(Pending)

Intertek 4006154 (Pending)





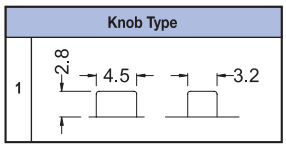
SL-308

001 — M — 1 — S

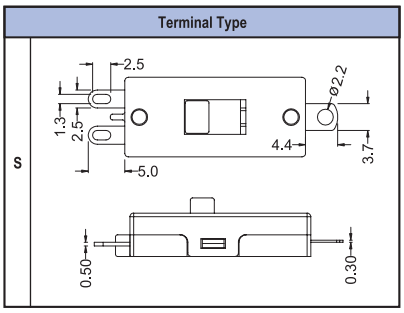
Circuit
001
More

Current	
M	5(2)A 250VAC
	10A GP 125VAC

Knob Type



Terminal Type



Internal Use Only

Circuit Options

*Circuit :001

POSITION	ELECTRIC CIRCUIT	
	C-1	C-2
1		
2	●	
3	●	●

*With production mould
For more circuit options, please call factory.

SLIDE SWITCH

Patent No.: 0900726.9M003 / 200930188379.3

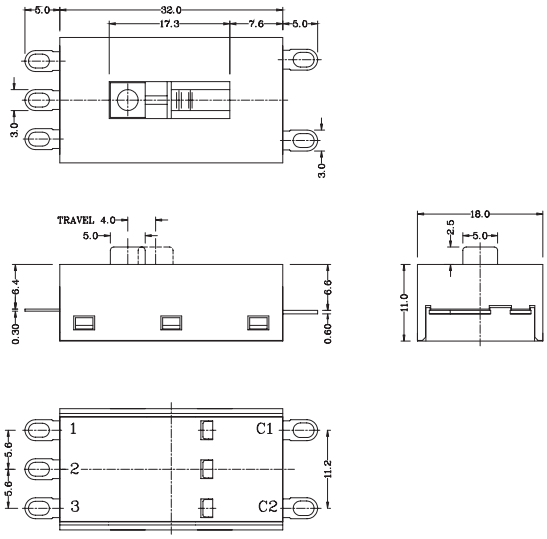
SL-401

Specifications:

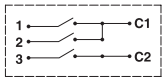
6(3)A	250VAC	T85	5E4
10(3)A	250VAC	T85	

8A	250VAC	T105
16A	125VAC	

E199326



CIRCUIT DIAGRAM



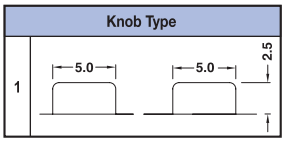
SL-401

001 — L — 1 — S

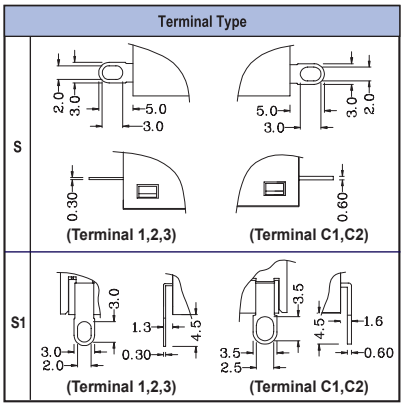
Circuit
001
002
004
006
007
008
010
More

	Current
L	10(3)A 250VAC
	6(3)A 250VAC 5E4
	16A 125VAC

Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

Circuit Options

* Circuit:001

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2		●	●
3	●		●
4	●	●	●

* Circuit:002

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2		●	●
3	●	●	●
4	●		●

* Circuit:004

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●	●	●
3	●		●
4		●	●

* Circuit:006

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●		
3	●		●
4	●	●	●

* Circuit:007

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●	●	
3	●		●
4	●	●	●

* Circuit:008

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2		●	
3	●		
4	●	●	●

* Circuit:010

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1	●	●	●
2	●		●
3	●	●	
4			

* Circuit:012

POSITION	ELECTRIC CIRCUIT		
	C1-1	C1-2	C2-3
1			
2	●		
3	●	●	
4	●	●	●

*With production mould
For more circuit options, please call factory.

SL-501

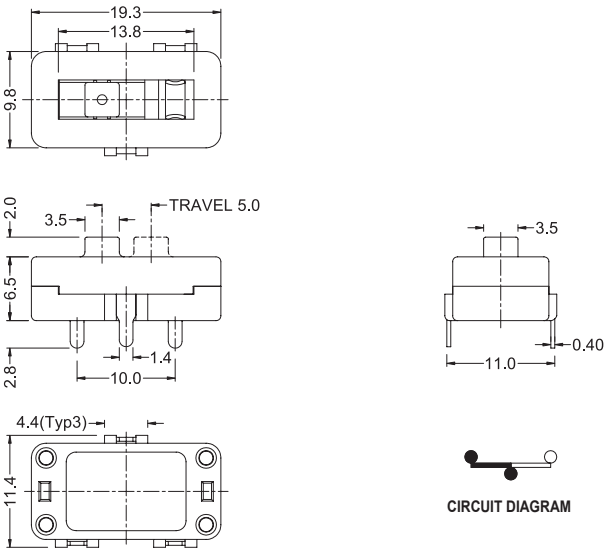
SL-501

Specifications:

3(1)A 250VAC T85

3A 250VAC T105
6A 125VAC

E199326



CIRCUIT DIAGRAM

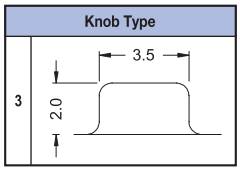
SL-501

12 — S — 3 — P — □□□□

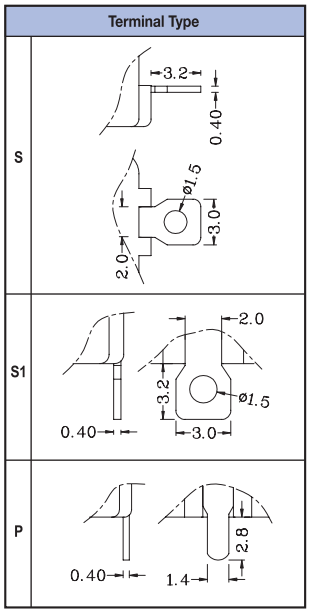
Circuit	
12	1P2T

Current	
S	3(1)A 250VAC
	6A 125VAC

Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

SL-502

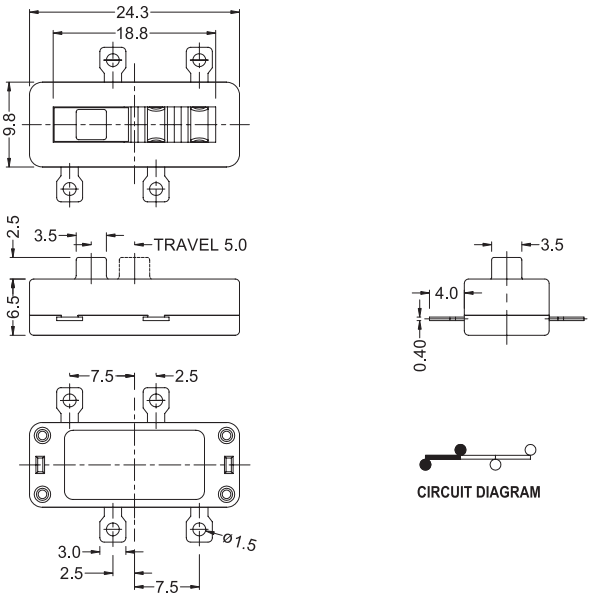
SL-502

Specifications:

5(1)A 250VAC T85

4A 250VAC T105
8A 125VAC

E199326

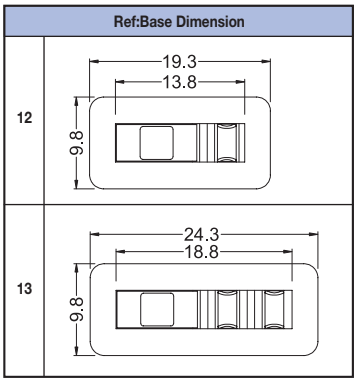


SL-502

13 — M — 2 — S

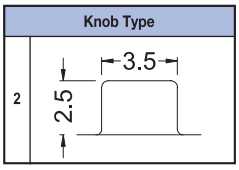
Circuit	
12	1P2T
13	1P3T

Ref:Base Dimension

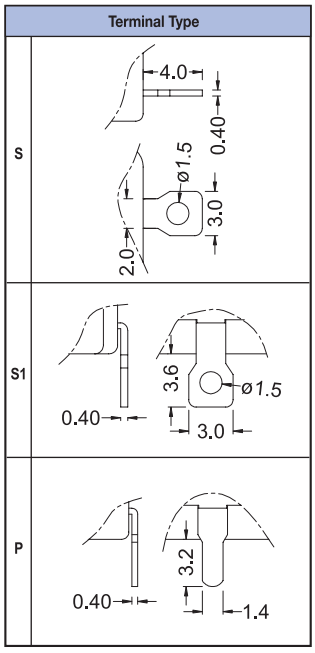


Current	
M	5(1)A 250VAC 8A 125VAC

Knob Type



Terminal Type



Internal Use Only

SLIDE SWITCH

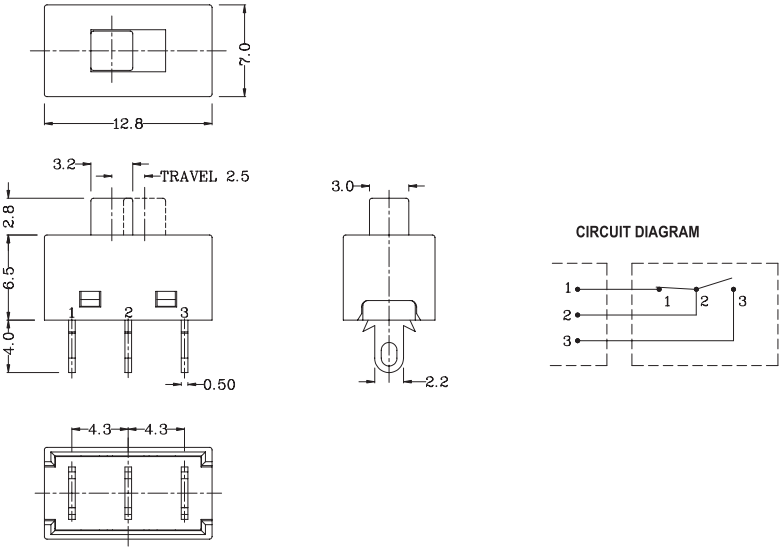
SL-503

Specifications:

3(1)A	250VAC	T105	3(1)A	125VAC/250VAC	T105
			4A GP	125VAC	T105

4006154

*UL61058 approved

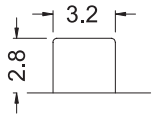


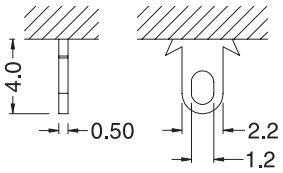
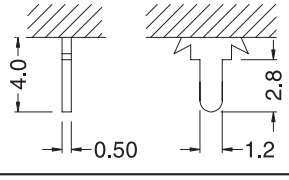
SL-503

12 — S — 1 — S — □□□□

Circuit	
12	1P2T

Current	
S	3(1)A 250VAC 4A GP 125VAC

Knob Type	
1	

Terminal Type	
S	
P	

Internal Use Only

SLIDE SWITCH

LH-580/581 *Series*

LH-580 LH-580 LH-580 LH-580 LH-580 LH-580 LH-580 LH-580 LH-580 LH-581 LH-581 LH-581

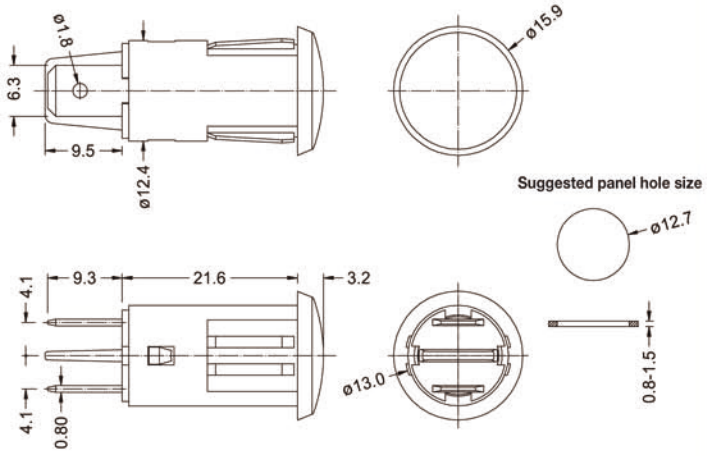
Specifications:

Neon and Fluorescent bulbs	110(130)V, 230(250)V, 400V	T100	T125
LED	2V, 6V, 12(14)V, 24(28)V 36V, 48V, 400V, 110V/230V	T85	T125

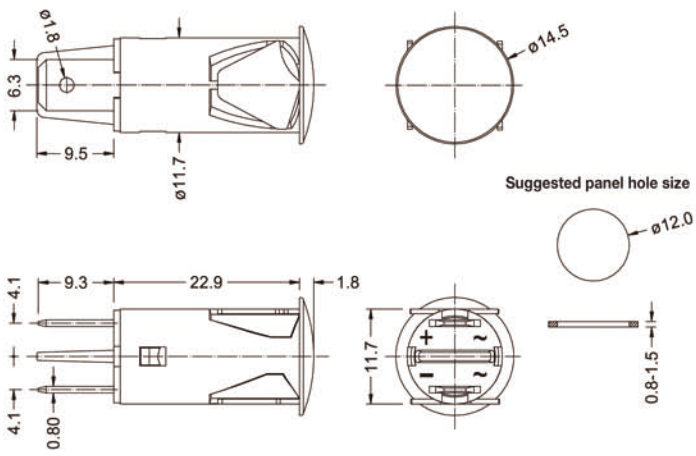
Neon and Fluorescent bulbs	110(130)V, 230(250)V, 400V	T100
LED	2V, 6V, 12(14)V, 24(28)V 36V, 48V, 110V/230V	T85

E250803

Cover Type 1



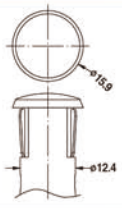
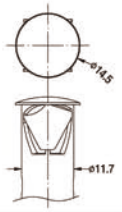
Cover Type 2



LH-580/581

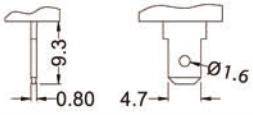
0 — 1 — RE — N02 — T — ☐☐☐☐

Type	
0	QC Terminal
1	w/Lead Wire

Cover Type	
1	
2	

Button Color	
OR	Amber
CL	Clear
RE	Red
GR	Green

Lamp Type/Voltage	
N01	Neon 110(130)V
N02	Neon 230(250)V
N03	Neon 400V
L11	LED 6V
L12	LED 12 (14)V
L13	LED 24 (28)V
L14	LED 2V
L15	LED 36V
L16	LED 48V
L20	LED 400V
L21	LED 110V/230V(100-250V)

Terminal Type/Lead Wire	
Q	
T	
1	Lead Wire 100mm
Other length of lead wire are available upon request	

Internal Use Only

Remarks:

1) Standard Rating 2~400V=1.0W Max
2) Terminal Q and T not applicable to LH-581

INDICATOR LAMP

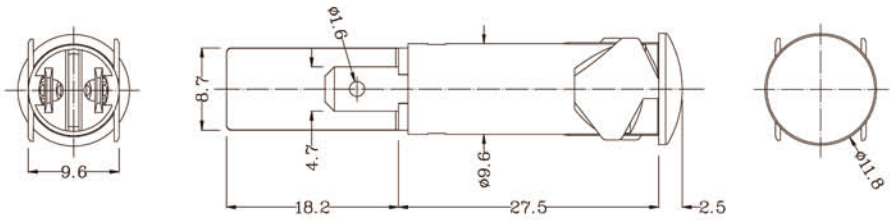
LH-680 *Series*

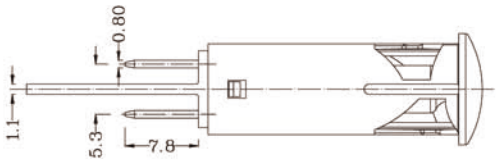
LH-680

LH-680

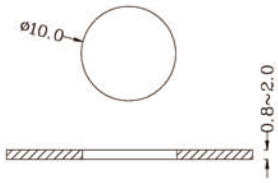
Specifications:

Neon and Fluorescent bulbs	110(130)V, 230(250)V, 400V	T100
LED	2V, 6V, 12(14)V, 24(28)V, 36V, 48V, 400V, 110V/230V	T85





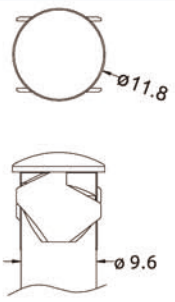
Suggested panel hole size



LH-680

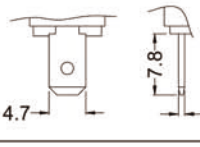
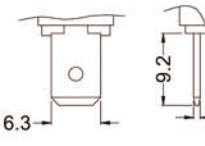
0 — 1 — RE — N02 — T — ☐☐☐☐

Type	
0	QC Terminal

Cover Type	
1	

Button Color	
OR	Amber
CL	Clear
RE	Red
GR	Green

Lamp Type/Voltage	
N01	Neon 110(130)V
N02	Neon 230(250)V
N03	Neon 400V
L11	LED 6V
L12	LED 12 (14)V
L13	LED 24 (28)V
L14	LED 2V
L15	LED 36V
L16	LED 48V
L20	LED 400V
L21	LED 110V/230V(100-250V)

Terminal Type/Lead Wire	
Q	
T	

Internal Use Only

Remarks:

1) Standard Rating 2~400V=1.0W Max

INDICATOR LAMP

SS-61

SS-61

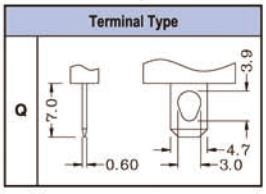
Specifications:

15A 125VAC

E210782

SS-61

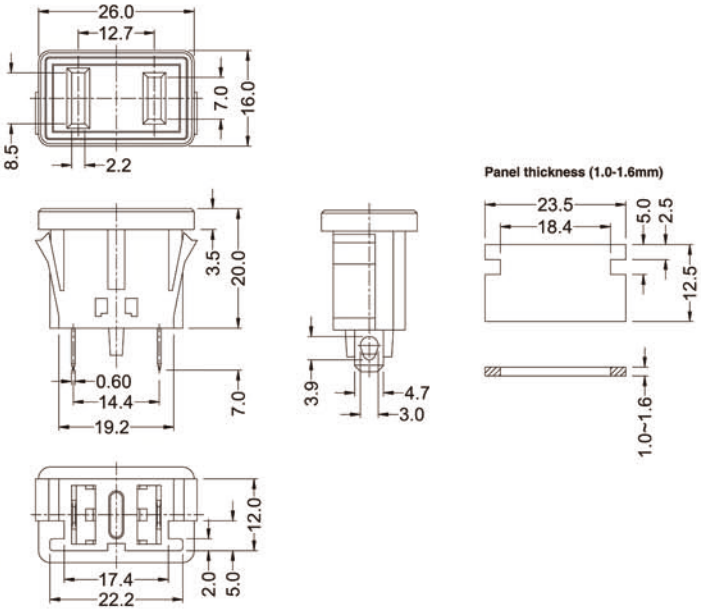
Q

Terminal Type	
Q	

BK

Base Color	
BK	Black
WT	White
GE	Grey

Internal Use Only



SS-66

SS-66

Specifications:

15A 125VAC

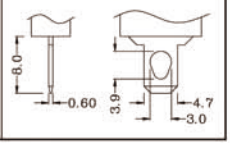
E210782

SS-66

1

Panel Thickness	
1	1.0–2.0
2	2.0–3.0

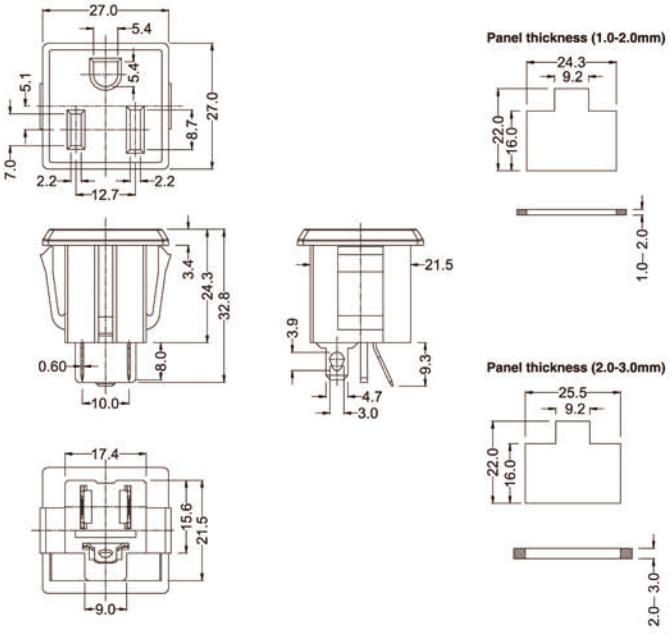
Q

Terminal Type	
Q	

BK

Base Color	
BK	Black
WT	White
GE	Grey

Internal Use Only



SS-101 Series

SS-101-00 | SS-101-0H | SS-101-S0 | SS-101-S0 | SS-101-SH | SS-101-W0 | SS101-VH

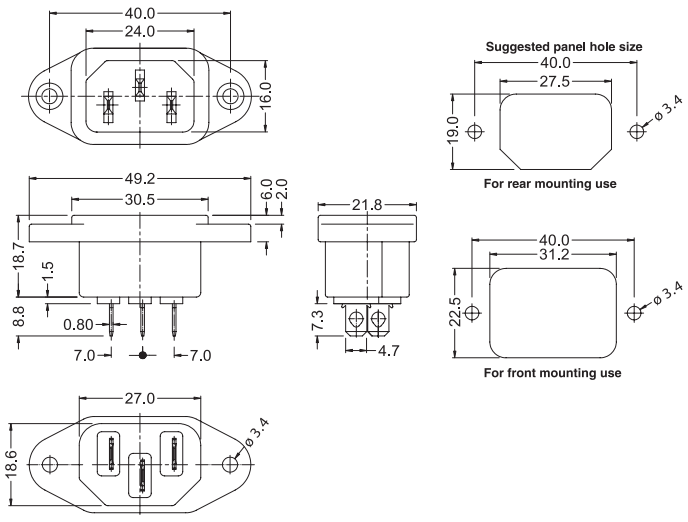
Specifications:

10A	250VAC	T70
10A	250VAC	T120

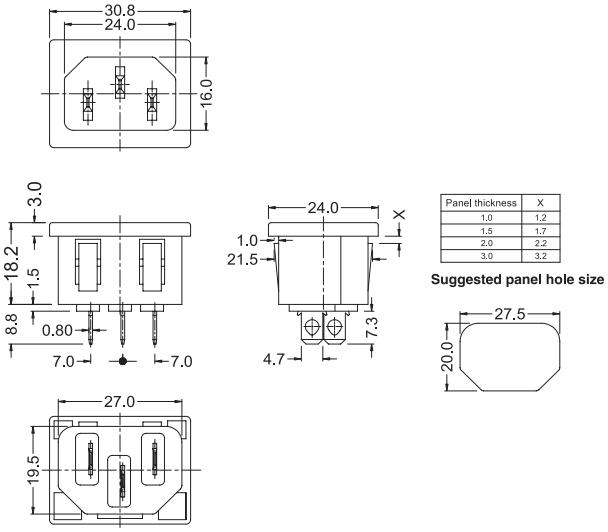
15A 125VAC/250VAC

E196462

SS-101



SS-101-S



Panel thickness	X
1.0	1.2
1.5	1.7
2.0	2.2
3.0	3.2

SS-101

00 — 0 — BK — 3 — Q — □□□

Sub. Cat.

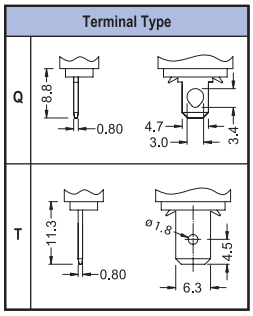
00	
0H	
S0	
SH	
W0	
WH	
V0	
VH	

Panel Thickness	
0	Not Applicable
1	0.8-3.0
2	1.0
3	1.5
4	2.0
5	3.0

Base Color	
BK	Black
WT	White
GE	Grey

No. of Terminal	
2	2 pins
3	3 pins

Terminal Type



Internal Use Only

Remark:
1. Panel thickness option "0" for Sub.Cat. 00 & 0H
2. Panel thickness option "1"(0.8~3.0mm) for Sub.Cat. W0, WH, V0 & VH
3. Panel thickness option "2~5" for Sub.Cat. S0,& SH
4. Hot temperature models: 0H,SH,WH & VH series come with 3 pins only.

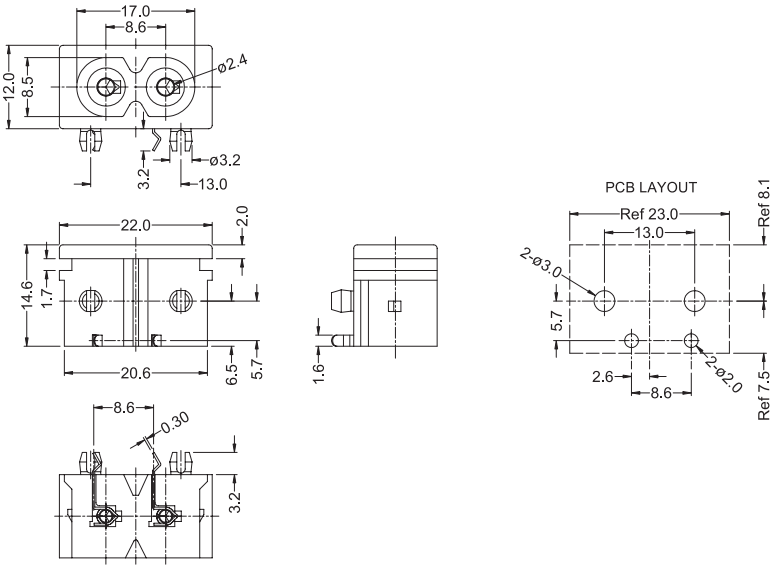
SS-210-V1 SS-210-SS SS-210-SD SS-210-10 SS-210-12 SS-210-20 SS-210-P1 SS-210-P2 SS-210-V2

Specifications:

2.5A 250VAC T70

2.5A 250VAC
7A 125VAC

E196462



SS-210

V1 — 2 — BK — ☐☐☐☐

Sub. cat.			
SS			
SD			*
10			
12			**
20			
P1			
P2			**
V1			
V2			**

Terminal Type	
S	
1	
2	

Base Color	
BK	Black
WT	White
GE	Grey

Internal Use Only

*only with UL
**only with UL & CCC

ADAPTOR

SD-51-2

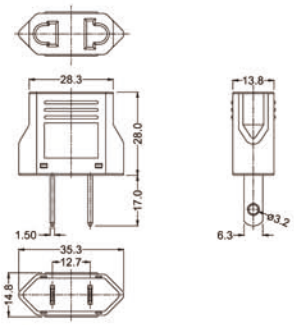
SD-51-3

SD-51-4

SD-51-5

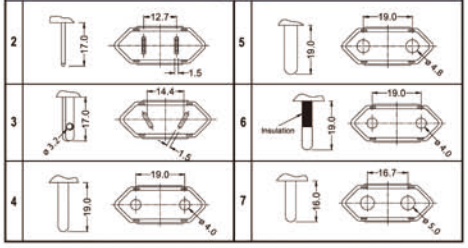
Specifications:

10A 250VAC CE



SD-51

2 — BK

Plug Type	
2	
3	
4	
5	
6	
7	

Base Color	
BK	Black
WT	White
GE	Grey

Internal Use Only

SD-52-2

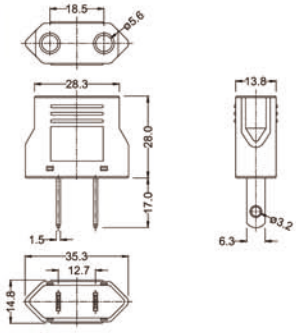
SD-52-3

SD-52-4

SD-52-5

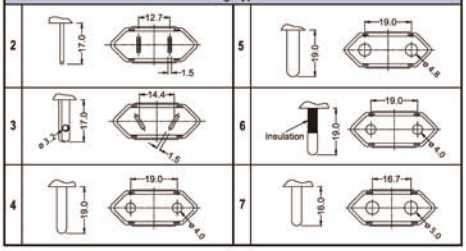
Specifications:

10A 110V~250VAC



SD-52

2 — BK

Plug Type	
2	
3	
4	
5	
6	
7	

Base Color	
BK	Black
WT	White
GE	Grey

Internal Use Only

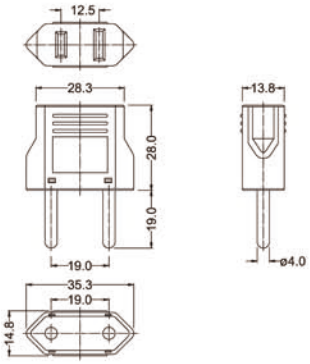
SD-53-4

SD-53-3

SD-53-5

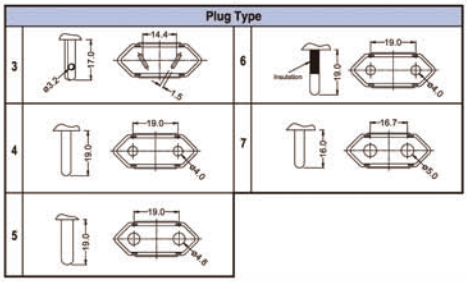
Specifications:

10A 110V~250VAC



SD-53

4 — BK

Plug Type	
3	
4	
5	
6	
7	

Base Color	
BK	Black
WT	White
GE	Grey

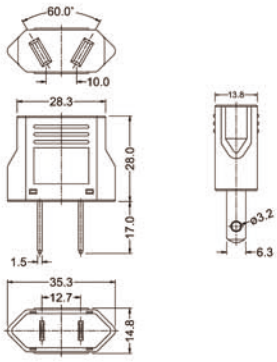
Internal Use Only

SD-55-2

Specifications:

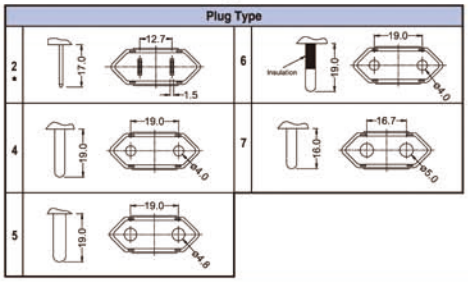
10A 110V~250VAC

10A 125VAC PSE JET



SD-55

2 — BK

Plug Type	
2 *	
4	
5	
6	
7	

Base Color	
BK	Black
WT	White
GE	Grey

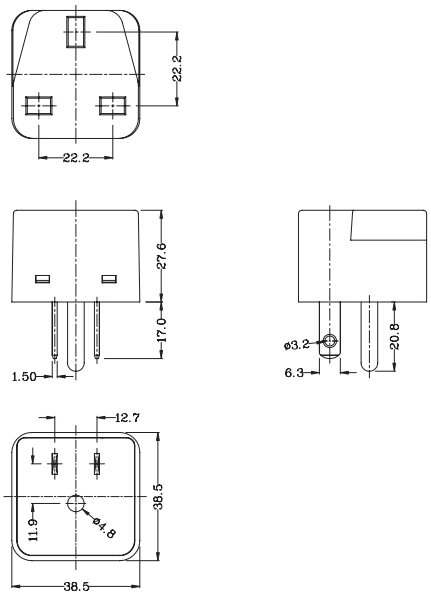
Internal Use Only

* PSE approved

SD-61

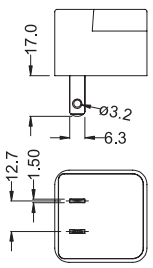
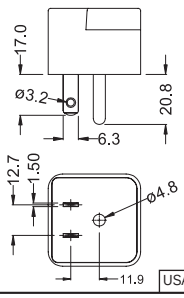
Specifications:

13A 125VAC



SD-61

2 — BK — □□□□

Plug Type	
1	 USA(2P) Type
2	 USA(3P) Type

Base Color	
BK	Black
WT	White
GE	Grey

Internal Use Only

Patent No.: 200620136974.3

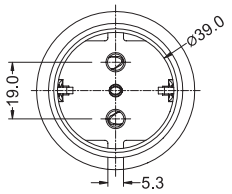
ADAPTOR

SD-81

Specifications:

16A 250VAC

KEMA KEUR



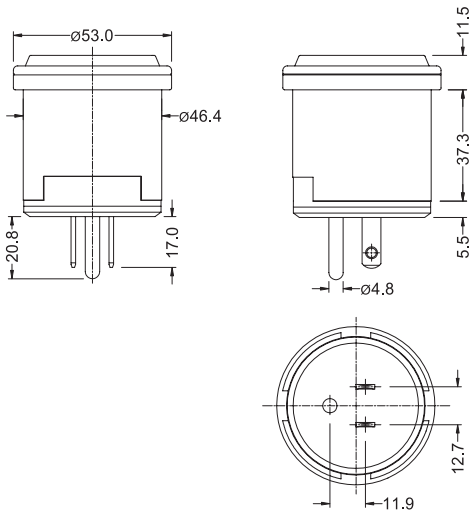
SD-81

2 — BK

Plug Type		
1 CHINA / AUS. Type	4 SWISS Type	7 FRANCE / GERMANY Type
2 USA Type	5 UK Type	8 INDIA Type
3 ITALY Type	6 SOUTH AFRICA Type	9 USA Type

Base Color	
BK	Black

Internal Use Only

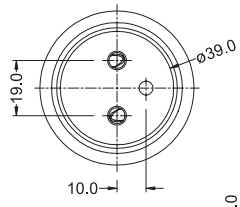


SD-82

Specifications:

16A 250VAC

KEMA KEUR



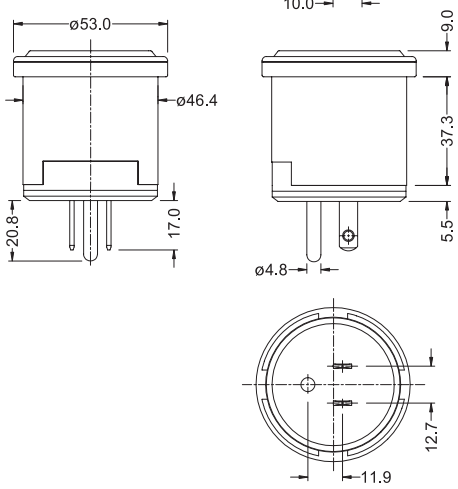
SD-82

2 — BK

Plug Type		
1 CHINA / AUS. Type	4 SWISS Type	7 FRANCE / GERMANY Type
2 USA Type	5 UK Type	8 INDIA Type
3 ITALY Type	6 SOUTH AFRICA Type	9 USA Type

Base Color	
BK	Black

Internal Use Only



Patent No.: 200620136974.3

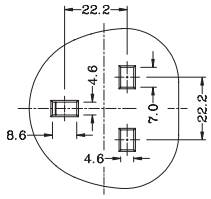
SD-83

Specifications:

13A 250VAC

KEMA KEUR

BS1363



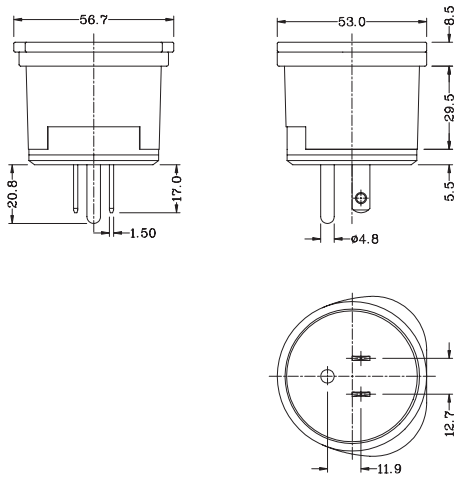
SD-83

2 — BK

Plug Type					
1	CHINA / AUS. Type	4	SWISS Type	8	INDIA Type
2	USA Type	6	SOUTH AFRICA Type	9	USA Type
3	ITALY Type	7	FRANCE / GERMANY Type		

Base Color	
BK	Black

Internal Use Only

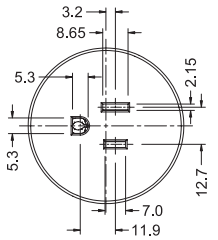


SD-85

Specifications:

15A 125/250VAC

KEMA KEUR



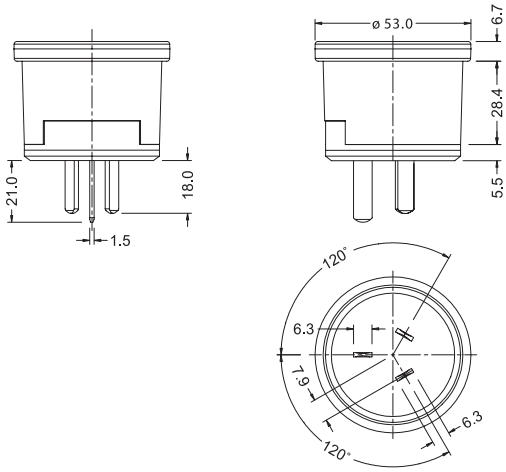
SD-85

1 — BK

Plug Type					
1	CHINA / AUS. Type	5	UK Type	8	INDIA Type
3	ITALY Type	6	SOUTH AFRICA Type		
4	SWISS Type	7	FRANCE / GERMANY Type		

Base Color	
BK	Black

Internal Use Only



SD-86/88 Series

Specifications:

10A 250VAC

KEMA KEUR

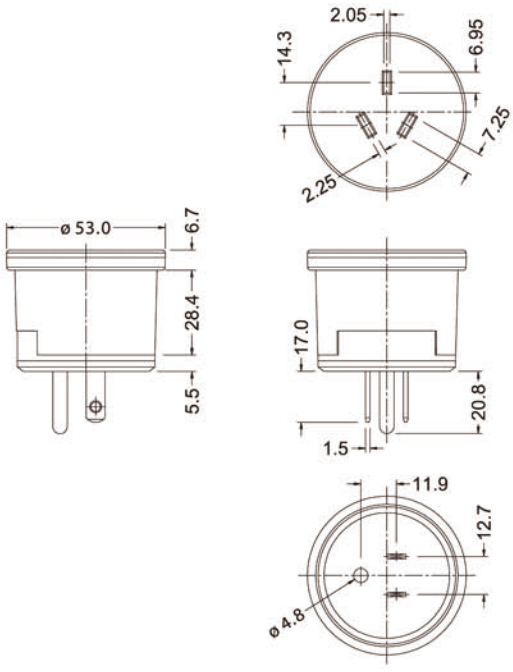
SD-86

2 — BK

Plug Type		
2 USA Type	5 UK Type	8 INDIA Type
3 ITALY Type	6 SOUTH AFRICA Type	9 USA Type
4 SWISS Type	7 FRANCE / GERMANY Type	

Base Color	
BK	Black

Internal Use Only



Specifications:

Input: 100-250VAC 50/60Hz
Output : 5VDC 1A

Input: 100-250VAC 50/60Hz
Output : 5VDC 2.4A

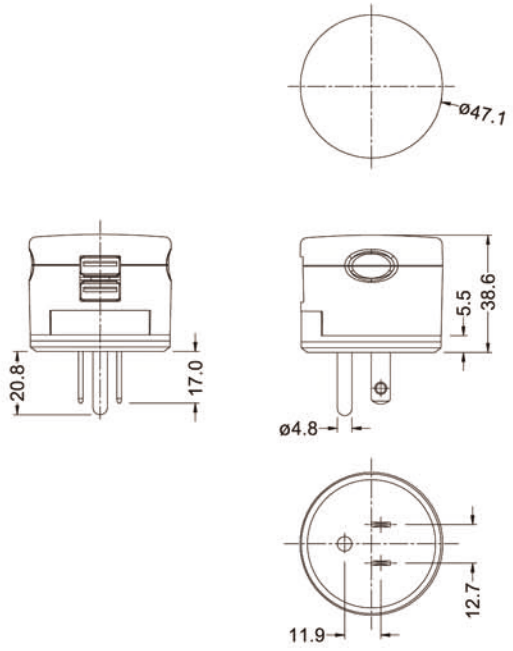
SD-88

2 — BK

Plug Type		
1 CHINA / AUS. Type	4 SWISS Type	7 FRANCE / GERMANY Type
2 USA Type	5 UK Type	8 INDIA Type
3 ITALY Type	6 SOUTH AFRICA Type	9 USA Type

Base Color	
BK	Black

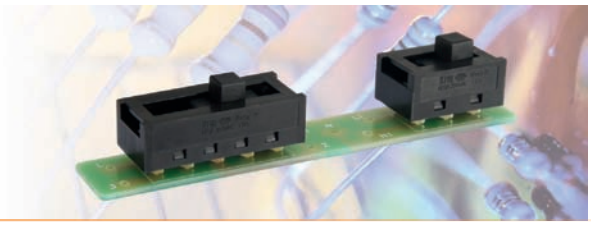
Internal Use Only



ASSEMBLY PRODUCT

▶ *Special made switch with lead wire & teminal*

▶ *Switch with lead wire*



▶ *PCB design & assembly*

SWITCH ON
THE BRIGHTEST IDEAS

Merchant Corporation Ltd.
華天國際企業有限公司

HEAD OFFICE

香港九龍觀塘開源道60號駱駝漆大廈3座10樓U室
Unit U, 10/F, Block 3, Camelpaint Building,
60 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong
Tel: (852) 2757 3363 Fax: (852) 2756 3728
E-mail: sales@merchant.com.hk
website: www.merchant.com.hk

FACTORY

國內廠址：廣東省東莞市長安鎮新安社區花園路
紅山工業區
Hong Shan Industrial District, Hua Yuan Road,
Xin An District, Changan, Dongguan 523881, China

Copyright 2016 Merchant Corporation Ltd. All Rights Reserved.