

SWD Series Door Switch



■ Features

- ◆ Fully sealed, ATEX explosion-proof certification
- ◆ Two options for controlling lamp load high current switch and control signal load micro current switch
- ◆ Universal quick installation method
- ◆ Various shapes of operation buttons
- ◆ Widely used in refrigeration appliances and equipment such as heat pumps, air conditioners, dehumidifiers, refrigerators, etc.

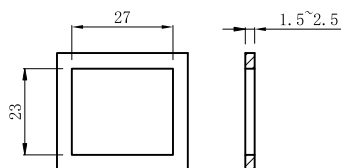
■ Application

- ◆ Home Appliances
- ◆ Electronic Devices

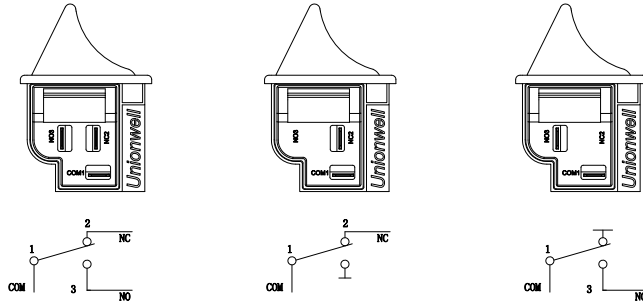
■ Parameters

Operating Speed		7.5~500mm/s
Operating Frequency	Mechanical	60 times/min
	Electrical	20 times/min
Insulation Resistance		≥100MQ (DC 500V Insulation resistance)
Contact Resistance (Initiative)	Terminals type	≤100mΩ
Voltage Resistance	Between terminals	AC1000V,50/60HZ,1min.
	Between terminals and uncharge dmetal perts	AC1500V,50/60HZ,1min.
Vibration durability	NO Transformation action	10-55Hz 1.5mm Double amplitude
Service Life	Electrical	2.5A 125/250VAC 25T85μ 5E4 6A 125/250VAC 25T85μ 1E4 0.1A 125/250VAC 0.1A 30VDC 25T85μ 5E4
	Mechanical	300,000 cycles(60 cycles/Min)
Protection Level		IEC IP67/IEC IP40
ATEX proof and Certificate Number		E S 20 ATEX 107202 0001U 3 G EX nC II C Gc
PTI		450V
Storage Temperature		-25~+85°C
Storage Humidity		85%RH Max

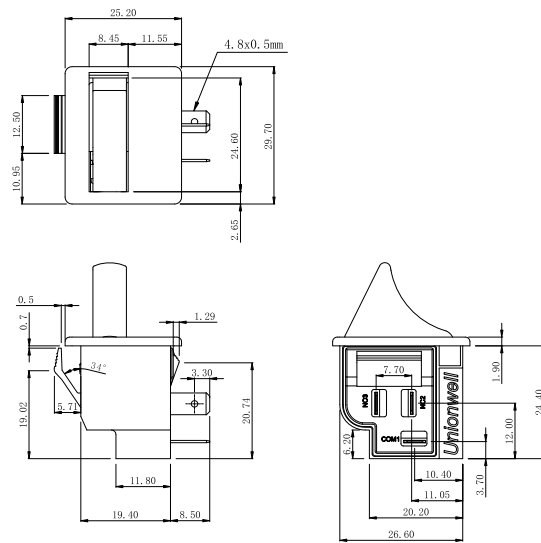
■ Mounting Hole Dimensions(Unit:mm)



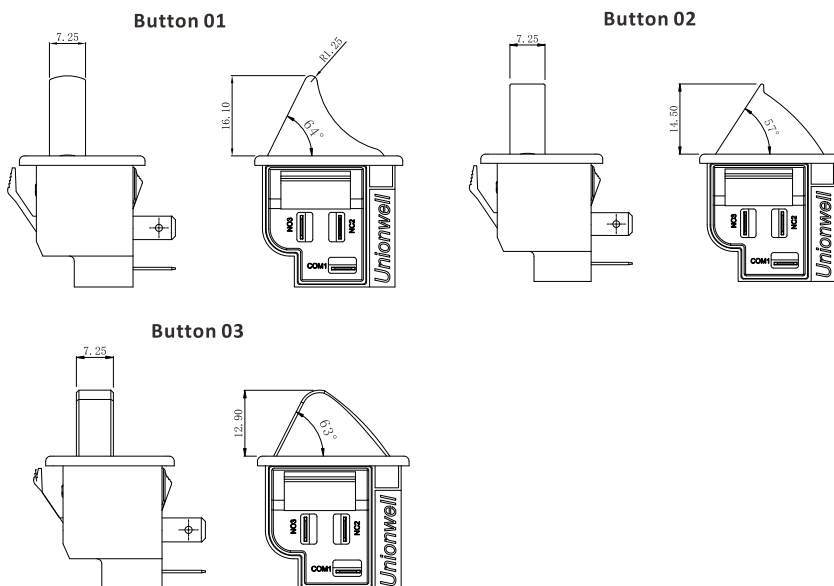
■ Circuit Configuration



■ Dimensions(mm)

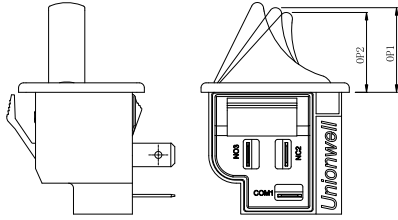


■ Button Type



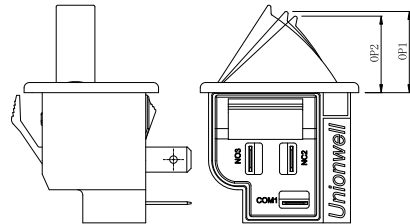
■ Operating Characteristics

SWD-□□□BA01



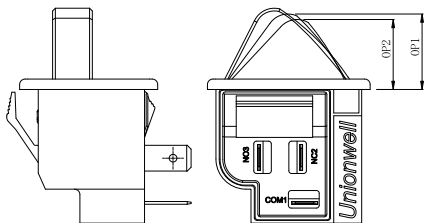
Parameters			
OF Max. (gf)	OP1 NC-OFF (mm)	OP2 NO-ON (mm)	TTP Min. (mm)
400	16±2	14.3±2.5	4

SWD-□□□BA02



Parameters			
OF Max. (gf)	OP1 NC-OFF (mm)	OP2 NO-ON (mm)	TTP Min. (mm)
400	14.2±2	11.2±2.5	2

SWD-□□□BA03



Parameters			
OF Max. (gf)	OP1 NC-OFF (mm)	OP2 NO-ON (mm)	TTP Min. (mm)
400	12.9±2	10.5±2.5	3.5

SWD Door Switch Ordering Instruction

SWD	D6	A	A	B	A	01	T001
Switch Type	Electrical Rating	Dust and Water Proof	Circuit Code	Terminal Style	Operating Force	Button Type	Special Designator
01	0.1A 125/250VAC 25T85 μ 5E4 0.1A 30VDC 25T85 μ 5E4	A IP 67	A 1P2T	B 187# Quick Connect	A 400gf Max	01	
06	2.5A 125/250VAC 25T85 μ 5E4 6A 125/250VAC 25T85 μ 1E4	B IP 40	B 1P1T-NC C 1P1T-NO	... Other	... Other	02 03 Other	

Button 01



Button 02



Button 03



■ Certifications and marks

The code has been obtained

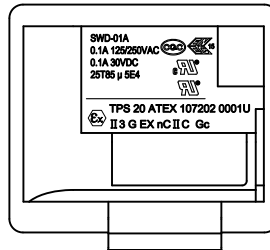
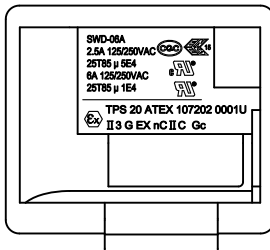
ATEX Certification number TPS 20 ATEX 107202 0001U

UL CUL Certification number E513673

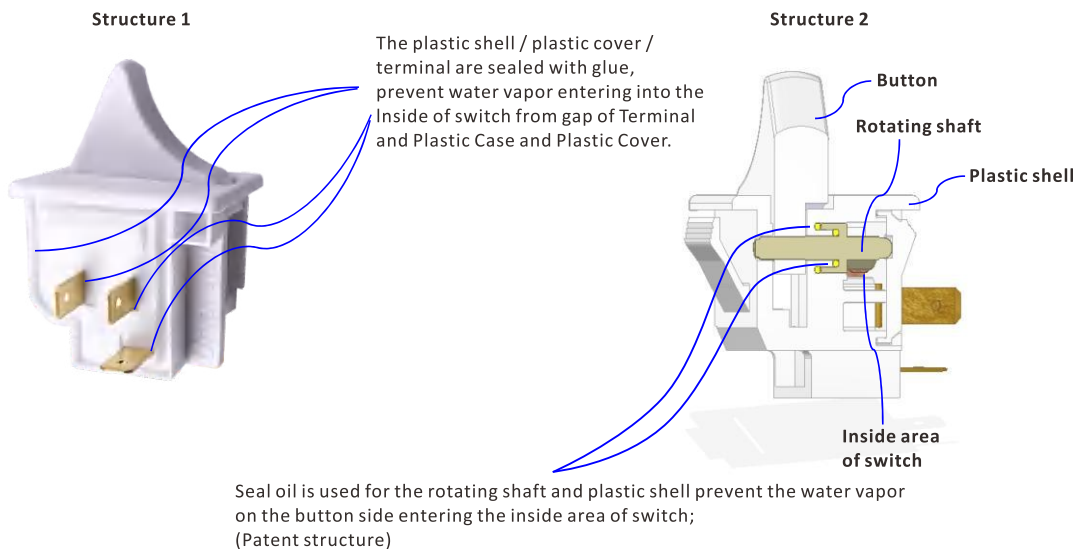
ENEC Certification number ENEC-03199

CQC Certification number The certification is expected to be issued on June 20

SWD series certification marks are as follows



■ Why I' m Water proof and ATEX explosion-proof?




■ What are the benefits of SWD Door Switch that has obtained ATEX certification for our customers?

1. Clause 22.116 of the standard IEC60335-2-40:2018 edition stipulates that electrical and electronic components (such as switches) that used in environments with potentially leaking refrigerant dangerous gases (such as refrigerants) must meet the requirements of the IEC60079-15:2010 edition, our ATEX certified SWD switch can meet the requirements of this standard. Meanwhile this standard requires that non-ATEX certified switches cannot be used on home appliances that have a potentially leaking refrigerant gas environment.
2. Refrigeration appliance parts suppliers that use switches, such as supply to refrigerators, ice maker, etc., when choosing ATEX certified switches, they can supply their products to appliance manufacturers without re-applying ATEX certification, which greatly saves the cost and time of development.
3. Manufacturing the equipment and parts with ATEX directives that meet the basic health and safety requirements, this is a win-win situation for both end consumers and manufacturers, and it will make your products safer in the market and more favored by consumers.
4. Electrical equipment manufactured for use in hazardous environments and intended for sale in the EU market must obtain ATEX certification. The ATEX directive is designed to ensure the free circulation of goods throughout the EU market.

■ SWD door switch ATEX certificate: certification standard: IEC60079-15:2010

TÜV SÜD CERTIFICATE 认证证书 CERTIFICADO CERTIFICAT



(1) **Type Examination Certificate**

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Type Examination Certificate Number:

TPS 20 ATEX 107202 0001 U Rev. 00

(4) Component: Door Switch - Type: SWD series

(5) Manufacturer: Guangdong Unionwell Electronics Co., Ltd.

(6) Address: No.532# Office Building, Huizhou Industrial Transfer Park, Longmen County, 516899 Huizhou City, Guangdong Province, China

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports with no. 64.105.19.30940.01


(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-15:2010

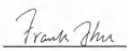
(10) The sign "U" placed after the certificate number indicates that the certificate must not be mistaken with a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of equipment or protective system.

(11) This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 3G Ex nC IIC Gc**

Certification Body, München, 16.01.2020

Ing. Frank Zhu, MSc. 



Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX&A 107202 0001 Rev. 00