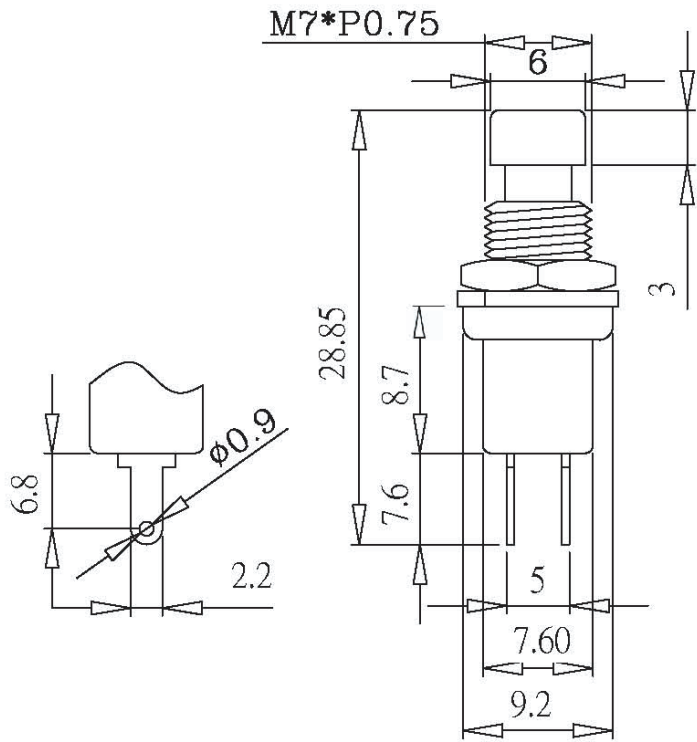


Date	Rev.	Description

SPECIFICATIONS

- 1.CIRCUIT : A:(ON)—OFF B:—(OFF)
- 2.RATING : 1A 250 VAC / 3A 125VAC
- 3.CONTACT RESISTANCE : 30mΩ Max
- 4.INSULATION RESISTANCE : DC 500V 100MΩ Min
- 5.DIELECTRIC STRENGTH : AC 1000V 1 MINUTE
- 6.ELECTRICAL LIFE : 5000 CYCLE Min
- 7.MECHANICAL LIFE : 10,000 CYCLE Min
- 8.TERMINAL MATERIAL :COPPER,ALLOY.(SILVER OR GOLD),
PLATED
- 9.PUSH FORCE : >0.3kg
- 10.BUTTON COLOR : RED,YELLOW,ORANGE,BLACK,GREEN
- 11.OPERATING TEMPERATURE : 260°C~350°C



DCC. NO.
A4 DRAWING NO.

GOLDSUN ELECTRONICS CO., LTD.

JAMECO NO. 26649(NEW)		GOLDSUN NO. R18-29B	
Description MINI PUSH BUTTON SWITCH SPST NORMAL CLOSE (BLACK)			Rev. 1
UNIT: mm	SCALE:	SHEET 1 OF 3	CAS No: ERN No:

1. Application :
 - 1.1. Power switch applied on computer, electronic instruments and various home appliances.
 - 1.2. Application temperature range : -30°C to 130°C
2. Test standards :
 - 2.1. Pre load test : Point No.5 is pre-load test specially designed for customer, served as complimentary to switch' s capability.
 - 2.2. UL FILE NO.1054 : according to the electrical level specified and acquired in Point No.3. The same switch is tested in the Test Condition Point No.4, undergoing the sequential tests of Point No.6, 7&8 without failure.
 - 2.3. Mechanical tests : the switch shall pass the tests specified in Point No. 9,10,11&12 with no electrical load, separately. But not the same switch is tested in each test.
 - 2.4. Cooling , heating , humidity tests : as specified in Point No. 13,14&15
3. Rating & acquired safety regulations : 3.1. 3A 125VAC
4. Test condition : The switch is tested at a temperature range of 10 - 40°C (UL), relative humidity range of 45-85%, and atmosphere 860~1060mbar.
5. Pre-load test electrical performance :
 - 5.1. Contact resistance : Measure by micro-ohm meter at DC. 5V 5A should be less than 20 mΩ initial
 - 5.2. Insulation resistance : Measure with DC. 500V applied between terminals of open contacts and between terminals of opposite polarity. Should be more than 100MΩ.
 - 5.3. Dielectric Voltage withstand test : A switch shall withstand for 1 minute without breakdown or arc in a potential applied between terminals of open contacts and between terminals of opposite polarity, and between terminals and frame as following:
 - 5.3.1. 1000 volts for a switch rated more than 125VAC.
 - 5.4. Operational force : The switch should be cable of being operated within a force of 400gram±200gram.
6. Load test : The same switch shall be operated according to following table, passing the overload tests first, then undergoing endurance test. During the testing, there should not be any contacts sticking, breakage & failure to the switch.

Test	Voltage	Current	Power factor	Frequency	Times	By
Overload test	125V	4.5A	0.75-0.8	6-10 cycles/min.	50	UL
Endurance test	125V	3A	0.75-0.8	6-10 cycles/min.	6000	UL

7. Temperature test : The test should be taken after load test with its rated current and voltage, and measured by the following standards.
 - 7.1. The temperature rise after the load test shall not be more than 30°C. (UL)
8. Dielectric Voltage withstand test : A switch after passing the test specified above shall withstand for 1 minute without breakdown or arc in a potential applied between terminals of open contacts and between terminals of opposite polarity, and between terminals and frame as following:
 - 8.1. 1000 volts for a switch rated more than 125VAC.

; C @ G I B ' 9 @ 7 H F C B 7 G ' 7 C ' Z @ 18 "			
JAMECO NO. 26649(NEW)		GOLDSUN NO. R18-29B	
MINI PUSH BUTTON SWITCH SPST NORMAL CLOSE (BLACK)			U^cE 1
WPQK { {	UOCESOK	UPOOVAGUZH	OCJA[K OUPA[K

9. Pull test : A static force of 5 pound (2.27kg) being applied in one direction on the tip of the terminal for 1 minute. The terminal may be deformed, but shall not sustain any trouble as deviation and breaking of terminal and breaking of insulation material.
10. Soldering test :
- 10.1. S.M.T. dipping : The temperature of soldering should be $250\pm 5^{\circ}\text{C}$ within $3\pm 5^{\circ}\text{C}$ seconds of dipping duration, and more than 75% of the terminal shall be covered by solder. After the soldering, the switch shall not have any deformations or fail to function.
- 10.2. Handwork soldering : The temperature of soldering should be $350\pm 5^{\circ}\text{C}$ when applied with a 60W iron head, and should abide by the following rules:
- 10.2.1. The soldering iron shall not be pressed to terminal when soldering, but only slightly touch the surface of the terminal.
- 10.2.2. Soldering time should be controlled within 3 seconds, at most not exceeding 5 seconds.
- 10.2.3. After the soldering, the switch shall not have any deformations or fail to function.
11. Mechanical life test : the switch applied without electric load, should operate at least 50,000 times, without mechanical failure.
12. Strength of the operational part : The test is no considerable losing, break, and mechanical strange phenomena happened. The following conditions for testing:
- 12.1. A static load of 2.5kgf is applied to the actuating direction lasting for 15 sec.
- 12.2. A static load of 2.5kgf is applied to the front end with a right angle of actuating force lasting for 15 sec.
13. Cooling endurance test : Put the switch at $-40\pm 2^{\circ}\text{C}$ for 96 hours and then take it out one hour measuring it at normal temperature and humidity surrounding within one hour after clean off water vapor. The following are tested.
- 13.1. Contact resistance : Lower $20\text{M}\Omega$.
- 13.2. Insulation resistance : Over $100\text{M}\Omega$.
- 13.3. Dielectric voltages withstand : The same as Point No. 8.
14. Heating endurance test : Put the switch at $85\pm 2^{\circ}\text{C}$ for 96 hours and then take it out one hour, measuring it at normal temperature and humidity surrounding within one hour after clean off water vapor. The following are tested.
- 14.1. Contact resistance : Lower $20\text{M}\Omega$.
- 14.2. Insulation resistance : Over $100\text{M}\Omega$.
- 14.3. Dielectric voltages withstand : The same as Point No. 8.
15. Humidity endurance test : Put the switch at $40\pm 2^{\circ}\text{C}$ relative humidity 90 to 95% for 96 hours and then take it out one hour, measuring it at normal temperature and humidity surrounding within one hour after clean off water vapor. The following are tested.
- 15.1. Contact resistance : Lower $20\text{M}\Omega$.
- 15.2. Insulation resistance : Over $100\text{M}\Omega$.
- 15.3. Dielectric voltages withstand : The same as Point No. 8.

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Description MINI PUSH BUTTON SWITCH SPST NORMAL CLOSE (BLACK)			Rev. 1
UNIT: mm	SCALE:	SHEET 3 OF 3	CAS No: ERN No: