CW INDUSTRIES
130 James Way
Southampton, PA 18966
Phone: 215-355-7080 • **Fax:** 215-355-1088
Email: info@cwind.com • **Website:** http://www.cwind.com



larger image

Item # GF-161-3011, Top Actuated Panel Mount Miniature Slide Switches (Swidgets)

Specifications · Materials · Performance Standards · Care in Switch Installation · CW Patents

Specifications

Circuitry	3PDT
Switch Function	ON-ON
Electrical Ratings	0.5 A @ 125 VDC 3 A @ 125 VAC
Actuator Style	Standard
Actuator Height	0.200
Mounting Type	MTG Ears
Orientation	Top
Terminations	Solder
Illumination	Non Illuminated
Terminal	G-20-028
Terminal Option	Dimension A - 0.250 ± 0.010 in (6.35 ± 0.25 mm) Dimension B - 0.078 ± 0.003 in (1.98 ± 0.08 mm) Style No. 2
Toppers	With Topper Without Topper (Standard)
Button Options	0.125" (3.18 mm) 0.200" (5.08 mm) Standard 0.328" (8.33 mm) 0.453" (11.51 mm)
Mounting	**PANEL**- Two 0.100" diameter holes on 0.812" centers. 4 -40 extruded and tapped mounting holes are also available or plug directly into board having hole pattern shown. **TERMINALS** Standard is solder terminal G -20-28 as shown. For PC applications, we suggest G -20-18, but you may specify the terminal of your choice from those on page 15. **SOLDER SHIELD** Vulcanized fiber shield 0.020" thick may be shipped assembled or separate as requested.
Listing Agency (Consult drawing or factory for specific rating)[1]	Listing Agencies
Compliance	
Solder Shield	Vulcanized Fiber Shield 0.020" thick that fits over the switch terminals is also available

[1] Due to ongoing advancements, additional agency certifications may be available, contact us for more information.

Materials

Button Material	Black Type 6/6 Nylon
Housing	Cold Rolled Steel
Housing Plating	4-point PC board mount switches -electro-tin; others - zinc followed by clear chromate.
Moving Contact	Copper Copper Alloy
Moving Contact Plating	Silver is standard. Gold (30 microinches of gold over 50 microinches of nickel) is available. Other gold thicknesses are available if your quantities are sufficient.
Moving Contact Spring	Beryllium Copper Phosphor Bronze
Terminals	Copper
Terminal Plating	Silver is standard. Gold (30 microinches over 50 microinches of nickel) on many popular types is available.
Terminal Board	NEMA Grade XP Phenolic Laminate
Note	Other materials to suit your application are available if volume is sufficient. Contact us for more information.

Performance Standards

CW switches are designed to perform to the standards listed when operated within ambient conditions detailed below:
Operating Temperature - 104ºC maximum, -10ºC minimum.
Relative Humidity- Switches will be operable and insulation resistance shall be greater than 100 megohms if allowed to dry for 100 hours at room temperature of 25 ºC and after exposure for one hour in an atmosphere having 95% relative humidity and a temperature of 50ºC
High Voltage Breakdown- Minimum of 1000 volts RMS 60 Hz for one minute between parts of opposite polarity.
Contact Resistance - Less than 0.01 ohm at 20 milliamperes DC.
Life Cycling (No Load)- Switches will be operative after 10,000 (minimum) cycles at the rate of 10 cycles per minute.
Life Cycling (Load)- Switches will be operative after 6000 (minimum) cycles at the rate of 10 cycles per minute at rated load.

Care in Switch Installation

CW switches will perform properly if they are installed and used properly. Causes for failure often encountered in the field that are the responsibility of the user are:

1. Removal of factory applied lubricants from switch contacts and moving parts.
2. Introduction of foreign material into switching mechanism...flux, solder cleaning materials, potting compounds.
3. Restriction of movement of switch button.
4. Excessive heat often introduced while soldering.
5. Switching loads in excess of rating.

Manufacturing Engineers are cautioned to avoid misusing switches and resultant switch failures.

CW Patents

CW Engineers are constantly trying to upgrade the quality and cost effectiveness of our switches. Often this results in new inventions. Switch products shown in this catalog may be covered by one or more of the following U.S. patents:
3,270,149; 3,993,881; 3,271,535; 4,404,437; 3,311,719; 4,128,745; 3,461,252; 4,410,232
Other patent applications are pending.

Downloaded from Arrow.com.