



PRODUCTS & SERVICES:

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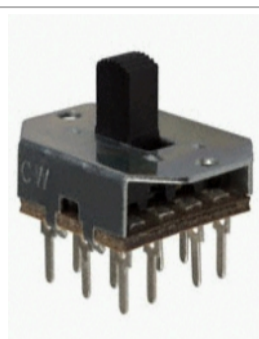
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Item # GF-642-0022, GF - Series Four Pole/Double Throw (with Detent) Standard Slide Switch



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Specifications

Circuitry	4PDT
Switch Function	ON-ON
Electrical Ratings	0.5 A @ 125 VDC 6 A @ 125 VAC
Actuator Style	Screwdriver Slot
Actuator Height	0.031
Mounting	Mounting Ears
Orientation	Top
Terminations	PC
Illumination	Non Illuminated
Terminal	G-20-013
Terminal Option	Dimension A - 0.450 ± 0.015 in (11.43 ± 0.38 mm) Dimension B - 0.130 ± 0.010 in (3.30 ± 0.25 mm) Dimension C - 0.125 in (3.18 mm) Dimension D - 0.060 in (1.52 mm) Dimension E - 0.170 in (4.32 mm)
Toppers	With Topper Without Topper (Standard)
Listing Agency (Consult drawing or factory for specific rating) <sup>1</sup>	Listing Agencies
Compliance	
Solder Shield	Vulcanized Fiber Shield 0.020" thick that fits over the switch terminals is also available

<sup>1</sup> 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	Panel: Zinc, PC Board: Electro-tin
Moving Contact	Brass 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** - 104°C maximum, -10°C 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°C and after exposure for one hour in an atmosphere having 95% relative humidity and a temperature of 50°C

**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.

Request Information

MORE IMAGES

· Features of Standard Slide Switches

DOWNLOADS

- GF-642 Button Styles (PDF, 187KB)
- Top Actuated Maintained Slide Switches (GF-642) (PDF, 233KB)
- GF-642 Mounting Layout Drawing (PDF, 104KB)
- GF-642 Terminal Options (PDF, 657KB)
- Slide Switch Schematic (PDF, 187KB)

Buttons for GF - Series Four Pole/Double Throw (with Detent) Standard Slide Switches



[Buttons for GF - Series Four Pole/Double Throw \(with Detent\) Standard Slide Switches](#)