

# D Series

## Miniature Snap-in Power Rocker Switches



### Description

The D series are miniature snap-in power rocker switches that are commonly used by designers of small appliance, computer and peripheral or medical instrumentation products. The D series switches feature both momentary and maintained models, PC and quick connect terminals – and have an available recessed bracket, helping to prevent accidental actuation.

### Features & Benefits

- Momentary and maintained models
- PC and quick connect terminals
- Recessed bracket available — prevents accidental actuation
- RoHS compliant
- Gold plated options available

### Applications

- Small appliances
- Computers and peripherals
- Medical instrumentation

### Agency Approvals

Agency	Agency File Number
	E61760

### Contact Rating

Part Number	GP (general purpose)	R (resistive)
D101	4 amps 125 VAC 50/60 Hz T85 10,000 cycles 2 amps 250 VAC 50/60 Hz T85 10,000	4 amps 30 VDC T85 10,000 cycles
D501, D502, D602	10 amps 125 VAC 50/60 Hz T85 10,000 cycles 5 amps 250 VAC 50/60 Hz T85 10,000	10 amps 30 VDC T85 10,000 cycles

**Notes:**  
0.4VA @ 20V AC/DC (gold plating) available upon request

### Specifications

<b>Electrical Life</b>	10,000 make-and-break cycles at full load.
<b>Dielectric Strength</b>	1,000 Vrms min. @ sea level.
<b>Insulation Resistance</b>	10 <sup>9</sup> Ω min.

### Materials

<b>Actuator &amp; Housing</b>	6/6 nylon (UI 94V-2) color black, finish: matte.
<b>Movable Contacts</b>	D10X and D20X Models: Copper, silver plated. D50X and D60X Models: Coin silver, silver plated.
<b>Stationary Contacts and Terminals</b>	Copper or brass, silver plated
<b>Contact Spring</b>	Music wire or stainless steel.
<b>Operating Temperature</b>	-30°C to 65°C

**Notes:**  
Specifications and materials listed above are for standard switches. For information on specific and custom switches, consult Customer Service Center.

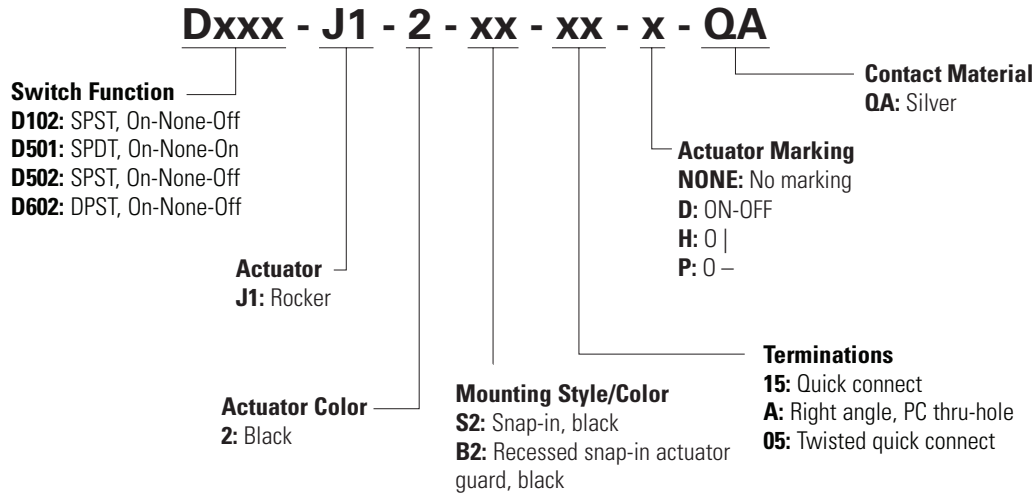
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## Miniature Snap-in Power Rocker Switches



### Ordering Number

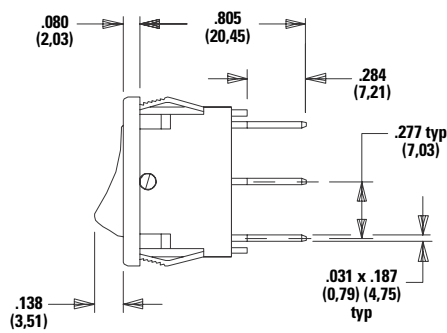
To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center.



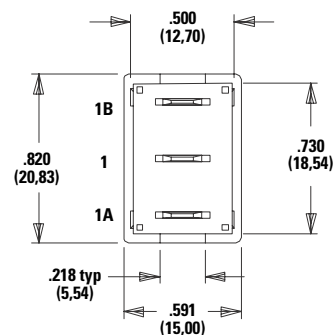
### Switch Function

#### SPDT

No. Poles	Model No.	Amp Rating <sup>1</sup>	Switch Function			Connected Terminals			Schematic
			C&K marking on opposite side						
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3	
SP	D102 D502	4 10	ON	NONE	OFF	1-1A	N/A	OPEN	
	D501	4 10	ON	NONE	ON	1-1A	N/A	1-1B	



Actuator Shown in Position 1



Terminal NOS.  
For Ref. Only

Part number shown: D101J12S215QA

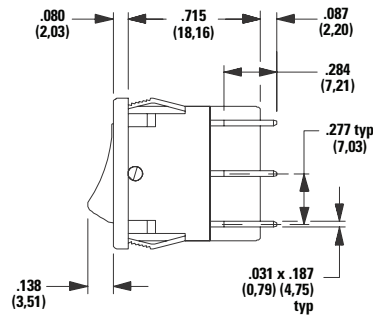
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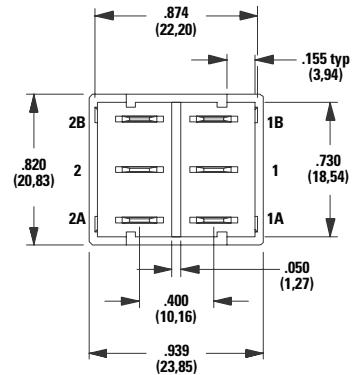


### DPDT

No. Poles	Model No.	Amp Rating <sup>1</sup>	Switch Function			Connected Terminals			Schematic
			C&K marking on opposite side						
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3	
DP	D602	4 10	ON	NONE	OFF	1-1A, 2-2A	N/A	OPEN	



Actual Shown Position 1

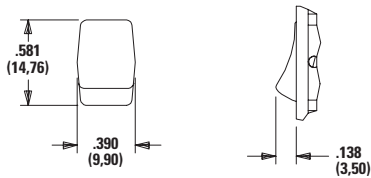


Terminal NOS.  
For Ref. only

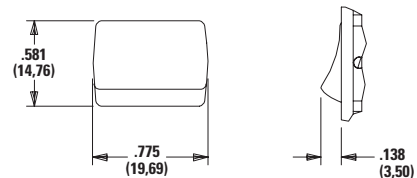
Notes: MOM. = Momentary us  
1. AMP RATING: see page 1 See CONTACT MATERIALS, page 5.

### Actuator and Actuator Color

#### J1 Rocker SP



#### DP



### Actuator

Option Code	Actuator Color
2	Black

Note: Actuator finish: matte. Other colors available, consult Customer Service Center.

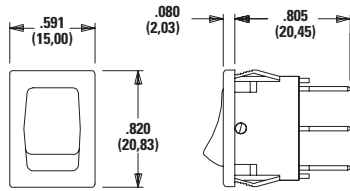
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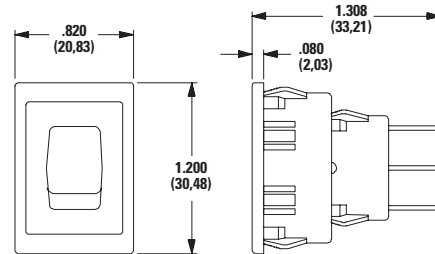
### Mounting Style/Color

#### S2 Snap-in, Black



Note: Frame finish on housing: matte. Other colors available, consult Customer Service Center.

#### B2 Recessed Snap-in Actuator Guard, Black

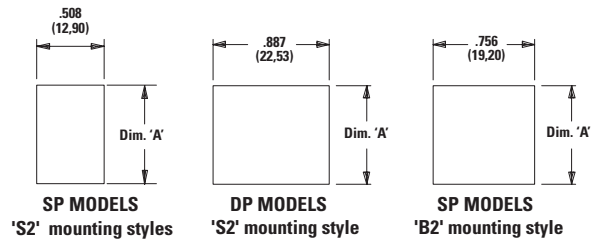


Note: Vertical mount, SP models only.

### Panel Mounting

Panel Thickness	DIM 'A' SP & DP Models 'S' Mounting Style	DIM 'A' With 'G2' Option SP Models Only	DIM 'A' SP Models 'B' Mounting Style
0.030–0.049 (0.76) (1.24)	0.756 (19.20)	0.764 (19.41)	1.068 (27.13)
0.049–0.079 (1.24) (2.01)	0.764 (19.41)	0.780 (19.81)	1.076 (27.33)
0.079–0.118 (2.01) (3.00)	0.780 (19.81)	N/A	1.092 (27.74)

### Panel Mounting



Note: Blank insert available for SP models only.

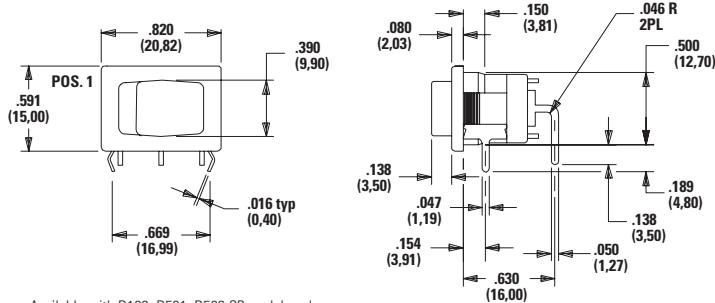
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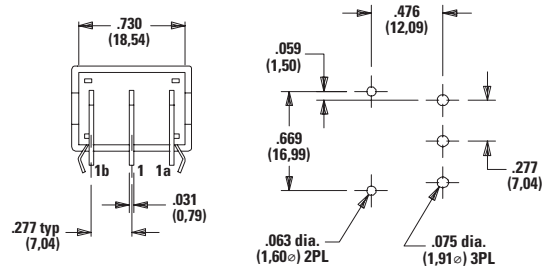
### Terminations

#### A Right Angle, PC Thru-hole

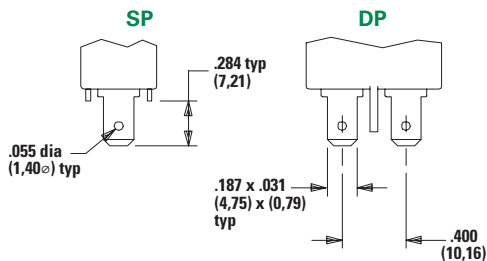


Available with D102, D501, D502 SP models only.

#### PC Mounting

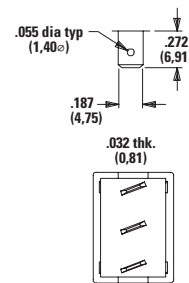


### 15 Quick Connect



Available with DX01 and DX02 models only.

### 05 Twisted Quick Connect



Note: Terminals are twisted.

### Actuators



Notes: D, H and P marking options: marking color white, standard for all actuator colors except white. Black marking color, standard for white actuators. Consult Customer Service Center for other available marking colors.

### Contact Material

Option Code	Contact and Terminal Material	Ratings
QA	Silver <sup>1</sup>	D102, GP (general purpose) 4 amps 125 VAC 50/60 Hz T85 10,000 cycles, 2 amps 250 VAC 50/60 Hz T85 10,000 cycles R (resistive), 4 amps 30 VDC T85 10,000 cycles, D501, D502, D602, GP (general purpose) 10 amps 125 VAC 50/60 Hz T85 10,000 cycles, 5 amps 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 10 amps 30 VDC T85 10,000 cycles

Notes:

1. **Movable Contact:** D10X and D20X Models: Copper, silver plated. D50X and D60X Models: Coin silver, silver plated.
2. **Stationary Contacts & Terminals:** Copper or brass, silver plated.

0.4VA @ 20V AC/DC Gold plated options available contact Customer Service. US

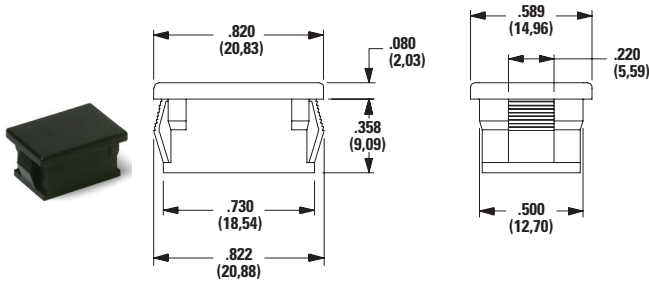
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### Available Hardware

#### Insert SP Only



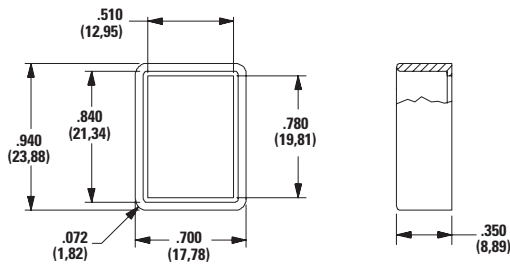
**Part No.** 057190200 Black  
 Material: Nylon 6/6  
 Finish: Matte

#### Recessed Actuator Guard, SP Only



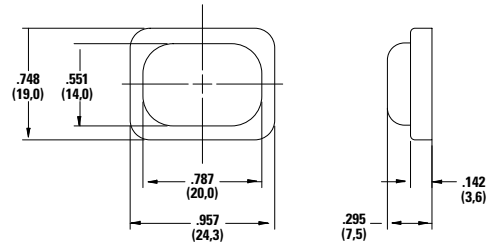
**Part No.** 599D02000 Black  
 Material: 6/6 Nylon  
 Finish: Matte

#### Actuator Guard



**Part No.** 104C22000  
 Material: PBT thermoplastic  
 Finish: Matte

#### Boot



**Part No.** 216C00000  
 IP54 Splash Proof Rubber Boot

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