

# PT Series

## Sealed Power Toggle Switches



### Specifications

<b>UL Electrical Ratings</b>	UL 61058-1
<b>Maintained Functions</b>	15A GP, 277 VAC 50/60Hz T85 15(4)A, 277 VAC 50/60Hz T85 ½ hp, 125 VAC 50/60Hz T85 1 hp, 250 VAC 50/60Hz T85
<b>Momentary Functions</b>	10A GP, 277 VAC 50/60Hz T85 10(4)A, 277 VAC 50/60Hz T85 1/4 hp, 125 VAC 50/60Hz T85 1/2 hp, 250 VAC 50/60Hz T85
<b>Electrical Life</b>	10,000 cycles
<b>DC Electrical Ratings</b>	Resistive Loads
<b>All Functions</b>	Up to 25A, 24 VDC 0.75A, 125 VDC 0.5A, 250 VDC
<b>Maintained Functions</b>	15A, 28 VDC
<b>Momentary Functions</b>	10A, 28 VDC
<b>Dielectric Strength</b>	2500 V min. initial (terminal to toggle)
<b>Insulation Resistance</b>	1000 MΩ min. initial
<b>Contact Resistance</b>	50 mΩ max. Initial (terminal to toggle)
<b>Operating and Storage Temperature</b>	-40°C to 85°C
<b>IP Ratings</b>	IP66/IP68 Versatile

### Agency Approvals

Agency	Agency File Number
cULus	E42363

**Note:**  
cULus for Single Pole (S101-S108) models only

### Description

The PT series is ideal as a rugged, panel mount, multi-function switch for harsh, dirty, dusty, and wet conditions. The PT series sealed power toggle with patented single piece injection molded panel and toggle seal is suited to the performance requirements for off-road construction, agricultural, material handling, and industrial equipment. The PT sealed power toggle has a versatile IP66/IP68 seal rating, electrical rating at 15 amps for maintained functions and 10 amps for momentary functions, and is IEC/UL 61058-1 certified.

### Features & Benefits

- IP66/IP68 versatile rating to withstand harsh outdoor environments, intense, wet weather, wind blown rain, dirt
- UL 61058-1 certified has global acceptance with no additional testing needed
- Integrated panel seal for extra protection
- Superior oil and fuel resistance
- High strength, heat resistant housing designed for demanding applications subjected to vibration and harsh conditions

### Applications

- Off-road, construction/ agricultural vehicles
- Articulating, scissor, and bucket lift controls
- Outdoor industrial equipment
- Lift gate controls
- Material handling equipment

### Materials

<b>Case</b>	Thermoset
<b>Actuator/Pivot Pin</b>	Stainless Steel
<b>Bushing</b>	Zinc Die Cast
<b>Seal</b>	Silicone
<b>Movable Contact(s)</b>	Copper alloy, silver plated
<b>Buttons</b>	Silver Cadmium
<b>Terminals</b>	Brass for quick connect and screw terminals. Brass with silver plated for solder lug.
<b>Hardware</b>	Hex nut & locking ring: brass, nickel plated Screws: brass Lock washer: brass, nickel plated
<b>Packaging</b>	Trays

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### 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.

### PTxxx - S - x - x

- Switch Function**
- PT101: SP On-None-On
  - PT102: SP On-None-Off
  - PT103: SP On-Off-On
  - PT105: SP Mom-Off-Mom
  - PT107: SP On-Off-Mom
  - PT108: SP On-None-Mom
  - PT201: DP On-None-On
  - PT202: DP On-None-Off
  - PT203: DP On-Off-On
  - PT205: DP Mom-Off-Mom
  - PT207: DP On-Off-Mom
  - PT208: DP On-None-Mom
- Contact Material**  
Q: Stnadard<sup>1</sup>
- Terminals**  
S: Screw terminal  
Q: Quick connect 0.250"  
Z: Solder lug
- Actuator**  
S: Standard

**Notes:**  
1. Brass for S and Q terminal options  
Brass with silver plating for Z terminal option

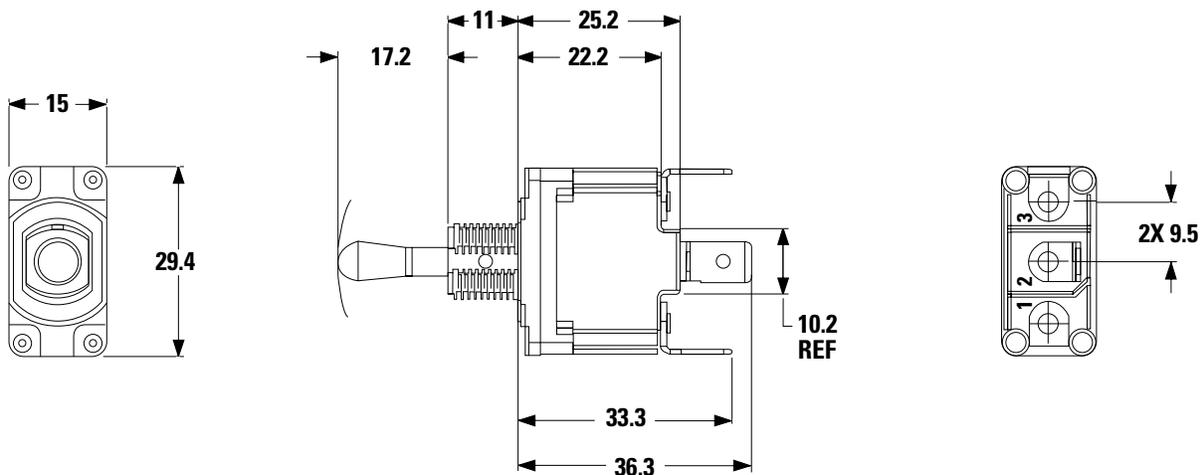
### Switch Function

#### SP

No. Poles	Model No.	Switch Function			Connected Terminals			Schematic
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
	PT101			ON	2-3	N/A	2-1	
	PT102 <sup>1</sup>	ON	NONE	OFF	2-3	N/A	OPEN	
	PT103		OFF	ON		OPEN	2-1	
	PT105	MOM	OFF	MOM	2-3	OPEN	2-1	
	PT107	ON	OFF	MOM	2-3	OPEN	2-1	
	PT108		NONE			N/A	2-1	

**Notes:**  
1. PT102 OMIT Terminal 1

### Dimensions (mm)



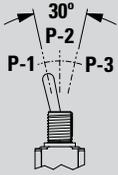
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## Sealed Power Toggle Switches

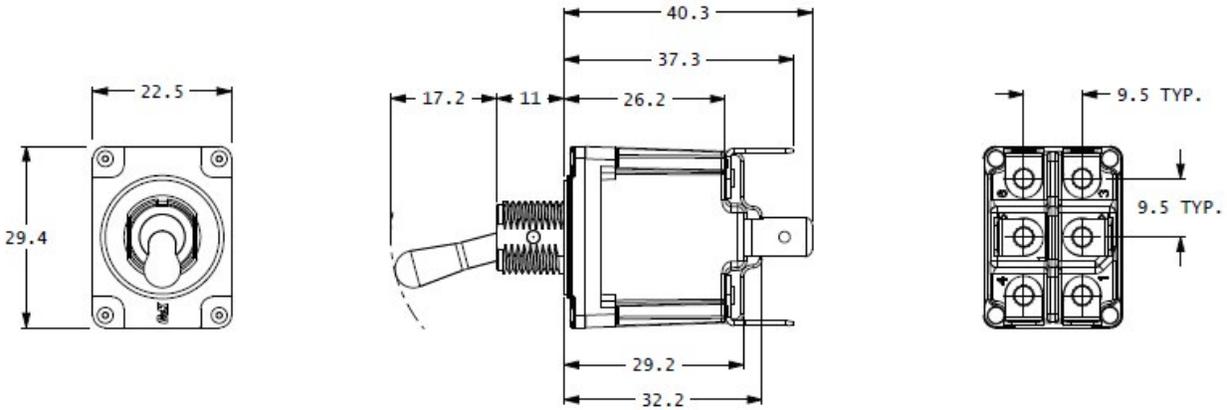


### DP

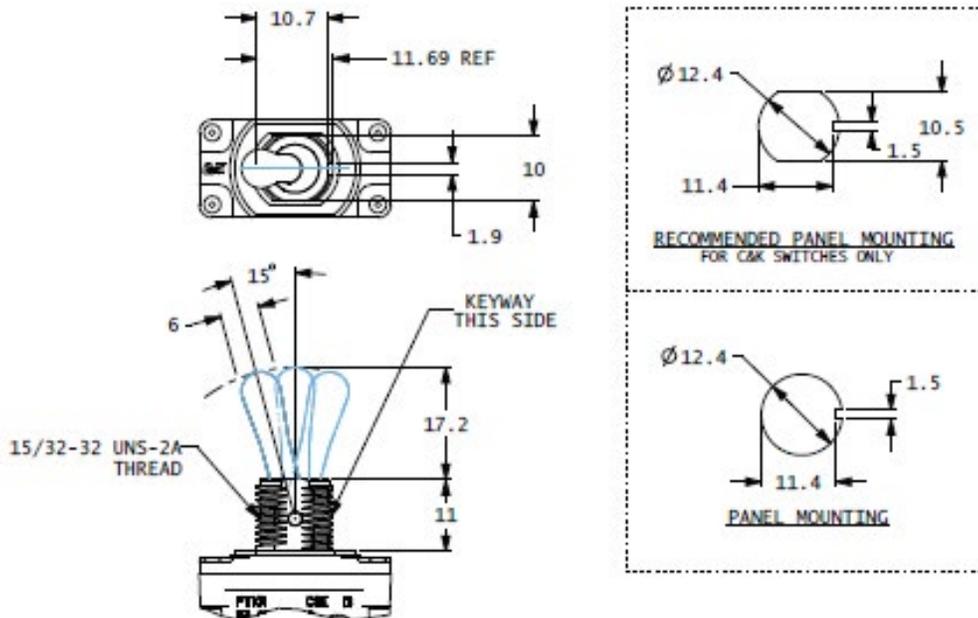
No. Poles	Model No.	Switch Function			Connected Terminals			Schematic
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
DP	PT201			ON	2-3, 5-6	N/A	2-1, 4-5	
	PT202 <sup>1</sup>	ON	NONE	OFF		OPEN		
	PT203		OFF	ON		OPEN		
	PT205	MOM	OFF	MOM		OPEN		
	PT207	ON	OFF	MOM		OPEN		
	PT208		NONE			N/A	2-1, 4-5	



**Notes:**  
1. PT202 OMIT Terminal 1 and 4



### Actuator S Standard

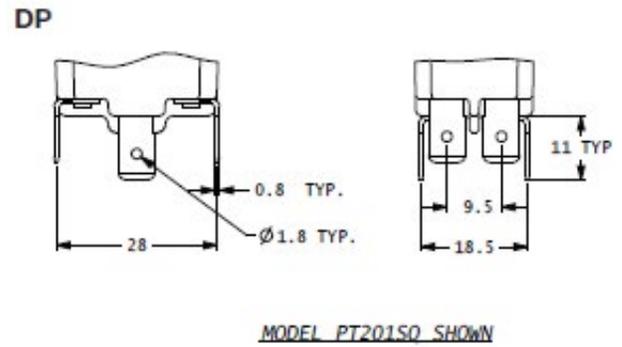
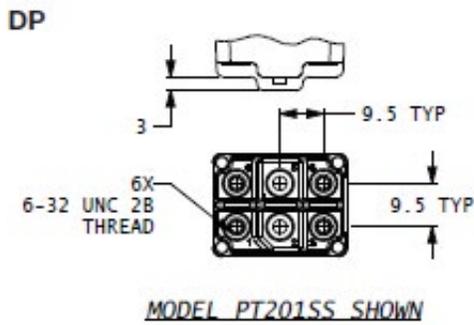
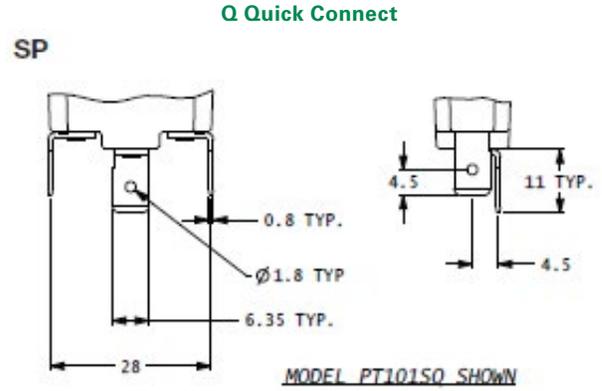
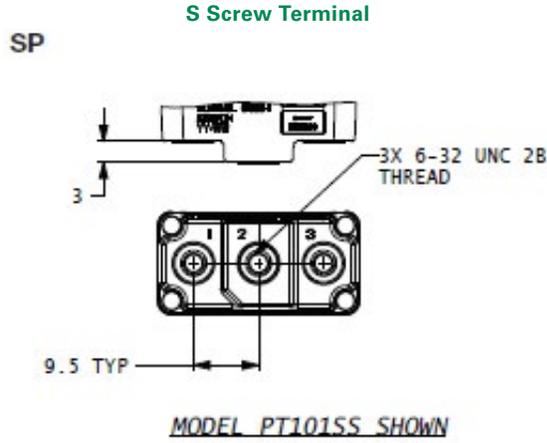


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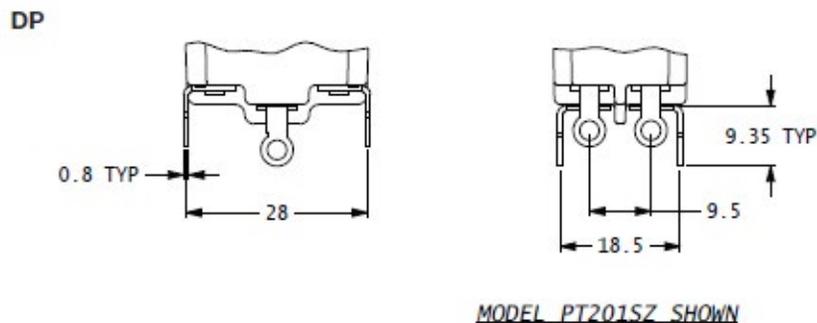
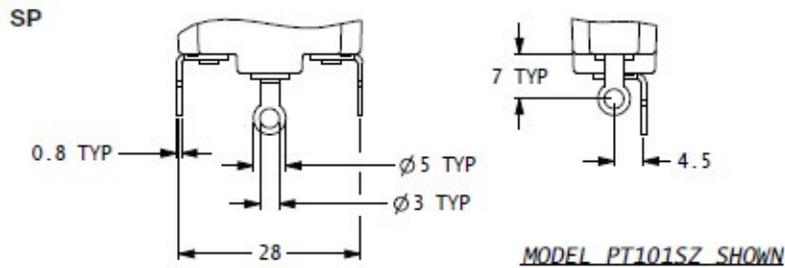
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### Terminals



### Z Solder Terminal SP



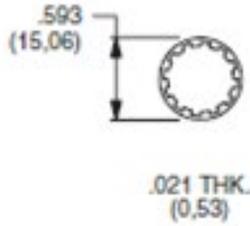
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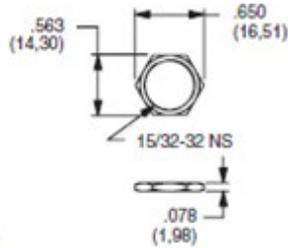
### Mounting Hardware

#### Lock Washer



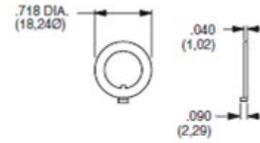
**Part No.** 700302202  
Nickel Plated

#### Hex Nut



**Part No.** 707100201  
Nickel Plated

#### Locking Ring



**Part No.** 707200201  
Nickel Plated with Keyway

**Notes:**

Standard hardware shipped with each switch is 1 piece each.