



PS SERIES PUSHBUTTON SWITCHES

General purpose pushbutton switches with secure voltage ratings and high in-rush current options.



Applications

- Industrial
- Marine, Oil & Gas
- Automotive
- Automation & Controls
- Communications
- Robotics
- IoT
- Security Systems

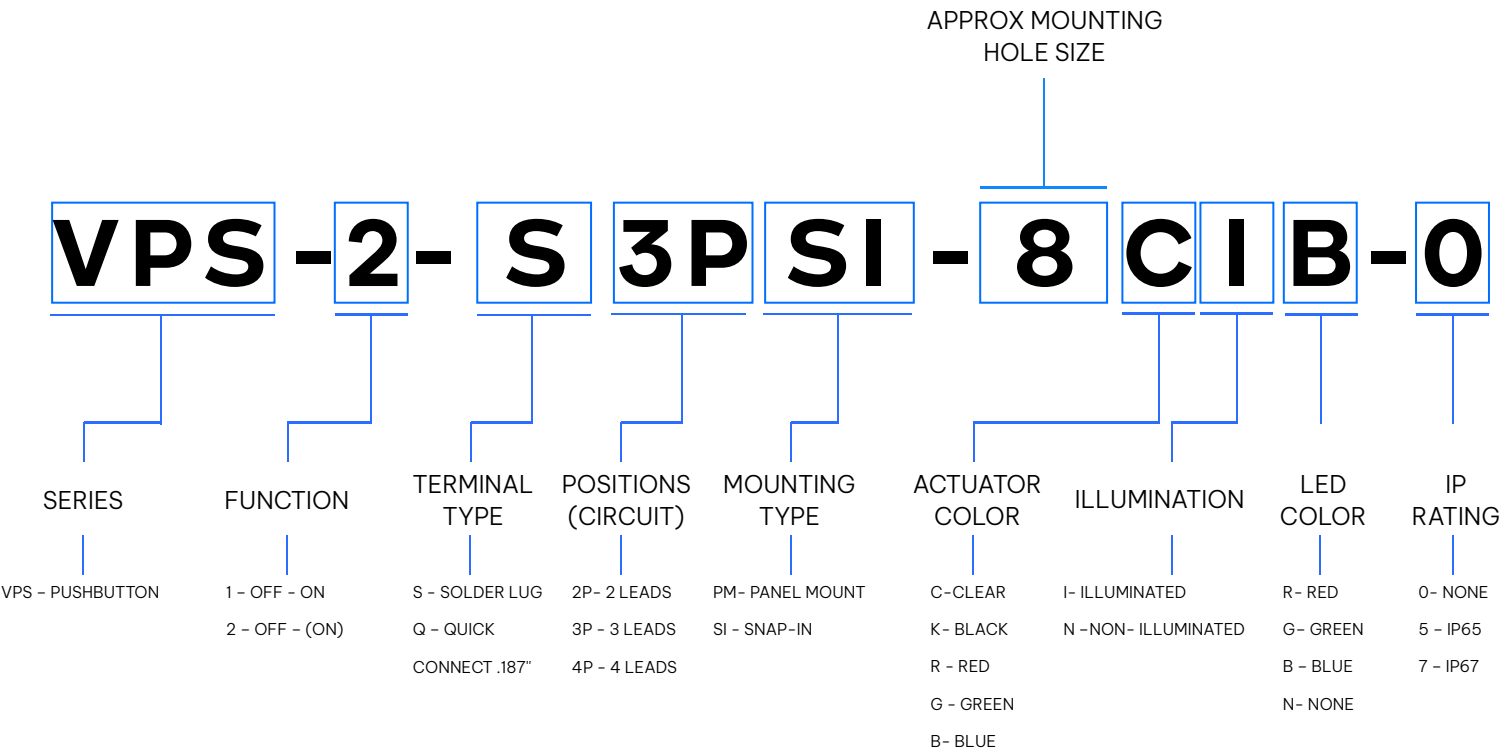
Key Features

- Non-illuminated & Illuminated.
- High in-rush current and voltage ratings for secure & reliable operation.
- Compact & lightweight design for easy installation.
- Solder lug & quick connect terminal options.
- Vibration resistant snap-in & panel mount threaded designs.
- IP65 & IP67 rating available.
- ROHS, ENEC & REACH compliant.



Ordering Data

SKU Offering





Mounting Hole: 8.3mm

Part Number	Function	Terminal Type	Positions	Mounting Type	Actuator Color	Illumination	Led Color	IP Rating
VPS-2-S4PSI-8CIB-0	Off-(On)	Solder Lug	3P SPST	Snap-In	Clear	Illuminated	Blue	None
VPS-2-S4PSI-8CIG-0	Off-(On)	Solder Lug	3P SPST	Snap-In	Clear	Illuminated	Green	None
VPS-2-S4PSI-8CIR-0	Off-(On)	Solder Lug	3P SPST	Snap-In	Clear	Illuminated	Red	None

Mounting Hole: 12mm

VPS-2-S2PPM-12KNN-7	Off-(On)	Solder Lug	2P SPST	Panel Mount	Black	Non-Illuminated	None	IP67
VPS-1-S2PPM-12KNN-5	Off-On	Solder Lug	2P SPST	Panel Mount	Black	Non-Illuminated	None	IP65
VPS-2-S2PPM-12KNN-5	Off-(On)	Solder Lug	2P SPST	Panel Mount	Black	Non-Illuminated	None	IP65

Mounting Hole: 20.2mm

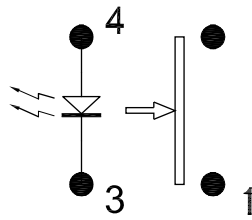
VPS-1-Q2PSI-20KNN-5	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	IP65
VPS-2-Q2PSI-20KNN-5	Off-(On)	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	IP65
VPS-1-Q4PSI-20KNN-5	Off-On	.187" QC	4P DPST	Snap-In	Black	Non-Illuminated	None	IP65
VPS-2-Q4PSI-20KNN-5	Off-(On)	.187" QC	4P DPST	Snap-In	Black	Non-Illuminated	None	IP65
VPS-1-Q3PSI-20RIR-5	Off-On	.187" QC	3P SPST	Snap-In	Red	Illuminated	None	IP65
VPS-1-Q3PSI-20GIG-5	Off-On	.187" QC	3P SPST	Snap-In	Green	Illuminated	None	IP65
VPS-1-Q4PSI-20RIR-5	Off-On	.187" QC	4P SPST	Snap-In	Red	Illuminated	None	IP65
VPS-1-Q4PSI-20GIG-5	Off-On	.187" QC	4P SPST	Snap-In	Green	Illuminated	None	IP65



Product Dimensions

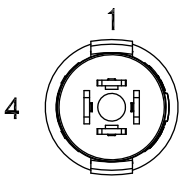
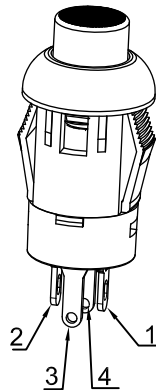
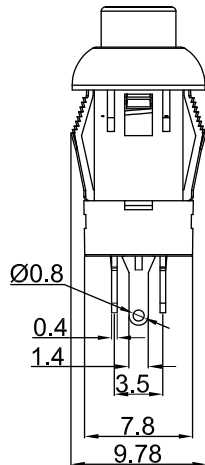
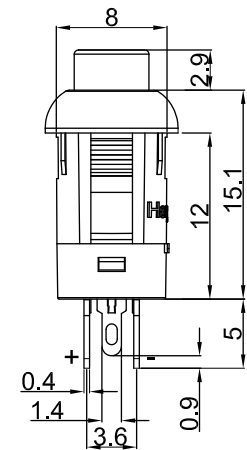
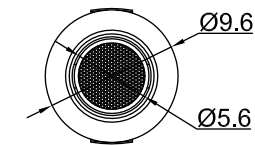
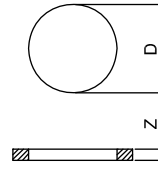
VPS-2-S4PSI-8CIB-0
VPS-2-S4PSI-8CIG-0
VPS-2-S4PSI-8CIR-0

CIRCUIT DIAGRAM



CUT-OUT

Z	D
.08~1.0	8.0~8.1
1.0~1.7	8.1~8.25



LED SPECIFICATIONS						
		MIN.	TYP.	MAX.		
G	Green	1.7	2.2	2.5	20	100
B	Blue	3.1	3.3	3.5	20	100
R	Red	1.8	2.2	2.4	20	100
Emitted Color X			(V)		(mA)	(mA)

Note: Tolerances unless otherwise specified: $\pm .012/0.3$ (in/mm)

Notes:

1. This product is strictly prohibited wave soldering and reflow soldering, please use a manual welding processing, temperature of $350^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and time is 3 ± 0.5 seconds.
2. After the product is welded on the PCB board, it is prohibited to use any solvent to clean the PCB board, and avoid the influence of the inner product.
3. Dimensions are in millimeters (mm).

Product Specifications

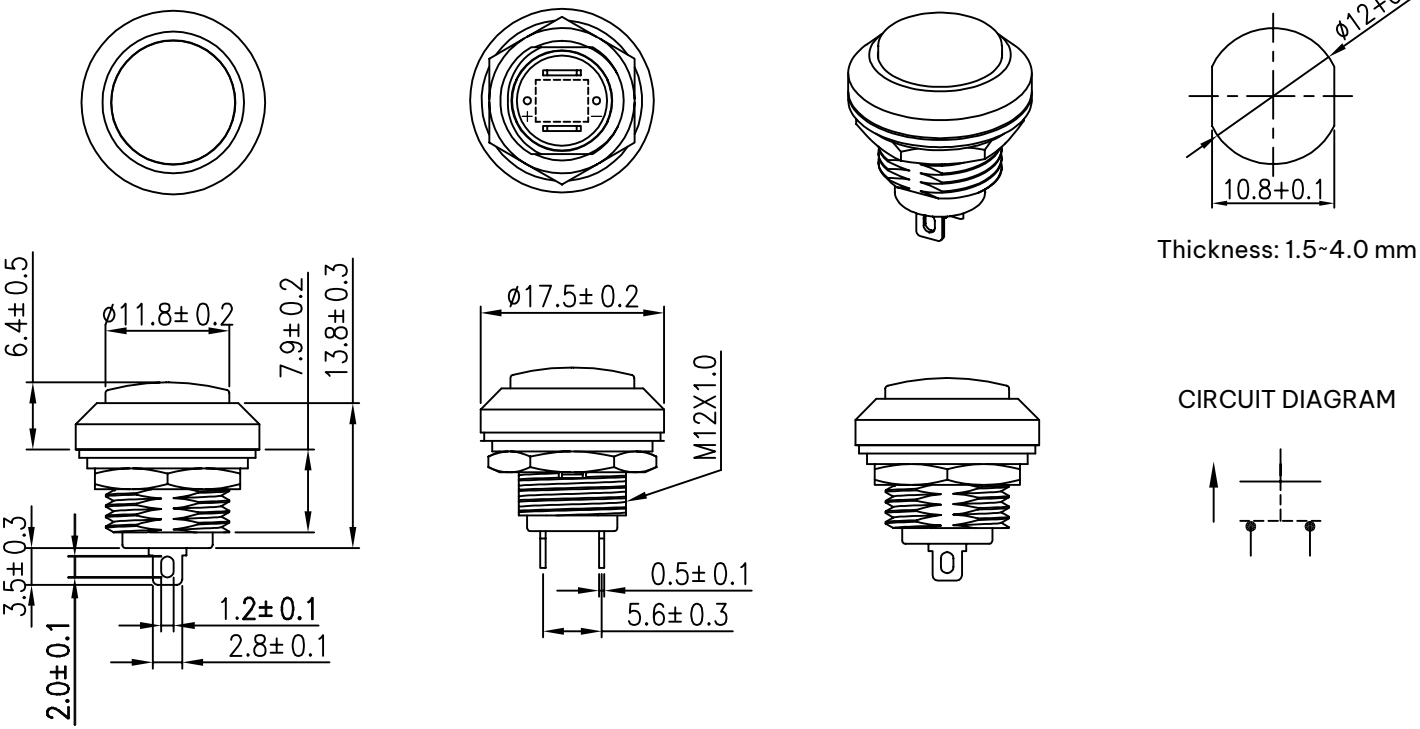
Rating:	.02A 36VDC
Contact Resistance:	50m Ω Max.
Insulation Resistance:	100m Ω Min.
Dielectric Strength:	AC 500V 1 minute
Total travel:	1.8 ± 0.3 mm
Operating Force:	200 ± 100 gf
Mechanical Life:	30,000 cycles min.
Electrical Life:	10,000 cycles min.
Operating Temperature:	$-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Manual Welding:	350°C for 3 seconds
Switch Function:	4P OFF-(ON)



MATERIAL:	
Base:	PA66, UL rated: 94 V-2
Cap:	PC
Terminal:	Copper, Gold plated



VPS-2-S2PPM-12KNN-7



Note:

- 1. Dimensions are in millimeters (mm).

Product Specifications

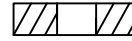
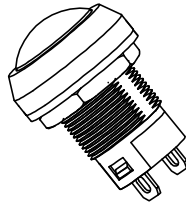
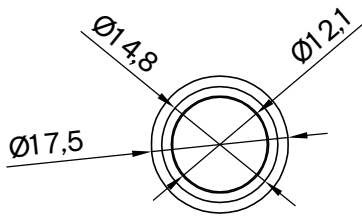
Rating:	400mA 32 VAC 125mA 125 VAC 100mA 50 VDC
Contact Resistance:	50mΩ Max.
Insulation Resistance:	DC 500V 100MΩ Min.
Dielectric Strenght:	AC 1,000V 1 minute
Operating Temperature:	-25°C~+85°C
Switch Function:	2P OFF-(ON)
IP Rating:	IP67

MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	Black, Nylon 66 (94-V2)
Base:	Black, PBT (94-V0)
Terminals:	Copper,Gold plated



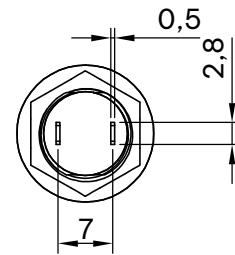
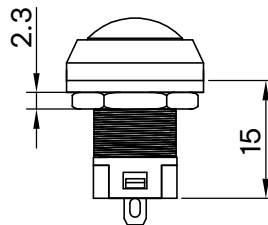
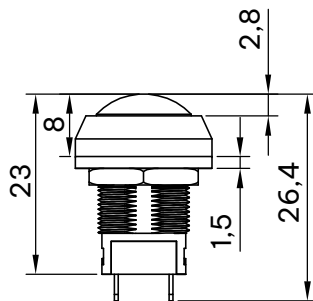
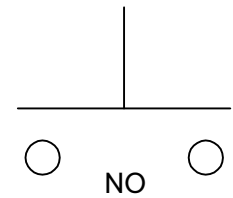


VPS-1-S2PPM-12KNN-5



Max panel thickness: 4.5 MAX

CIRCUIT DIAGRAM



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).

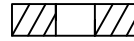
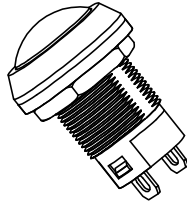
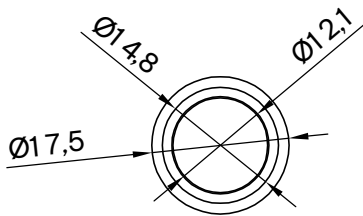
Product Specifications

Rating	0.2A 250VAC, 0.5A 12VDC
Shell material	Plastic
Mounting size	12mm
IP Rating	IP65
Operation type	Lock (z)
Contact type	1NO
Contact material	Nickel-plated copper
Insulated voltage	AC/DC220V
Thermal current (Ith)	0.5A
Electric cycle	100,000
Mechanical cycle	100,000
Operating temp	-25°C~55°C
Actuator color	Black
Switch Function:	2P OFF-ON



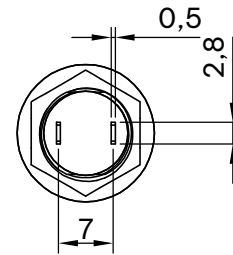
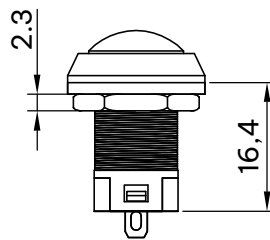
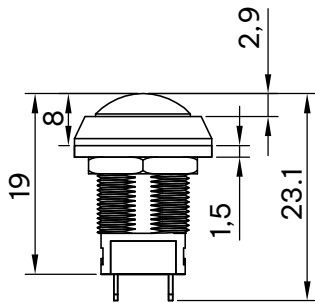
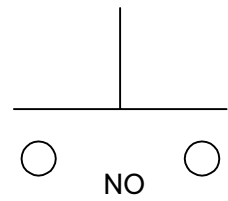


VPS-2-S2PPM-12KNN-5



Max panel thickness: 4.5 MAX

CIRCUIT DIAGRAM



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).

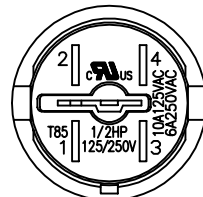
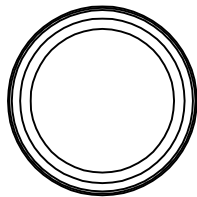
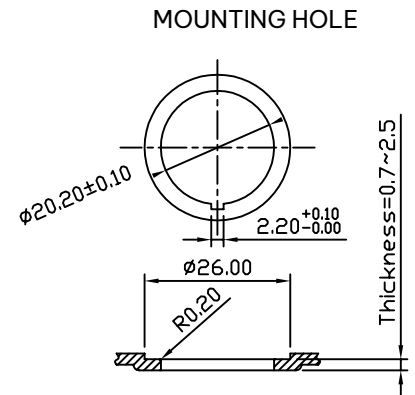
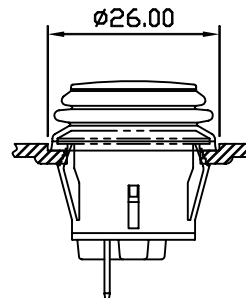
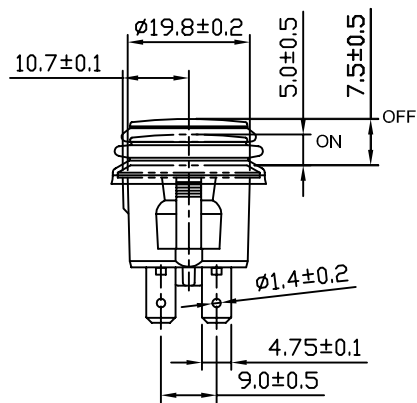
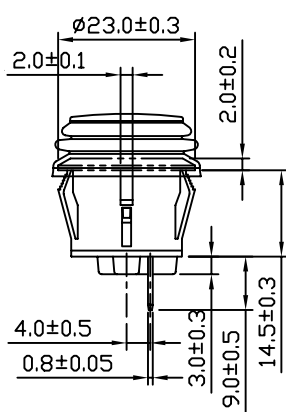
Product Specifications

Rating	0.2A 250VAC, 0.5A 12VDC
Shell material	Plastic
Mounting size	12mm
IP level	IP65
Operation type	Momentary
Contact type	1NO
Contact material	Gold-plated brass
Insulated voltage	AC/DC220V
Thermal current (Ith)	0.5A
Electric cycle	100,000
Mechanical cycle	100,000
Operating temp	-25°C~55°C
Actuator color	Black
Switch Function:	2P OFF-(ON)

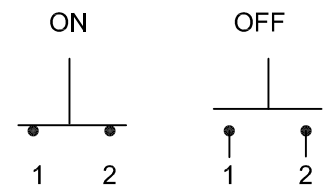




VPS-1-Q2PSI-20KNN-5



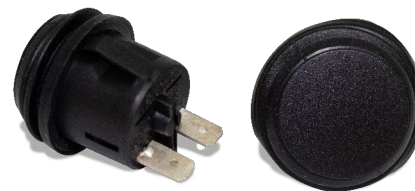
CIRCUIT DIAGRAM



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).

Product Specifications

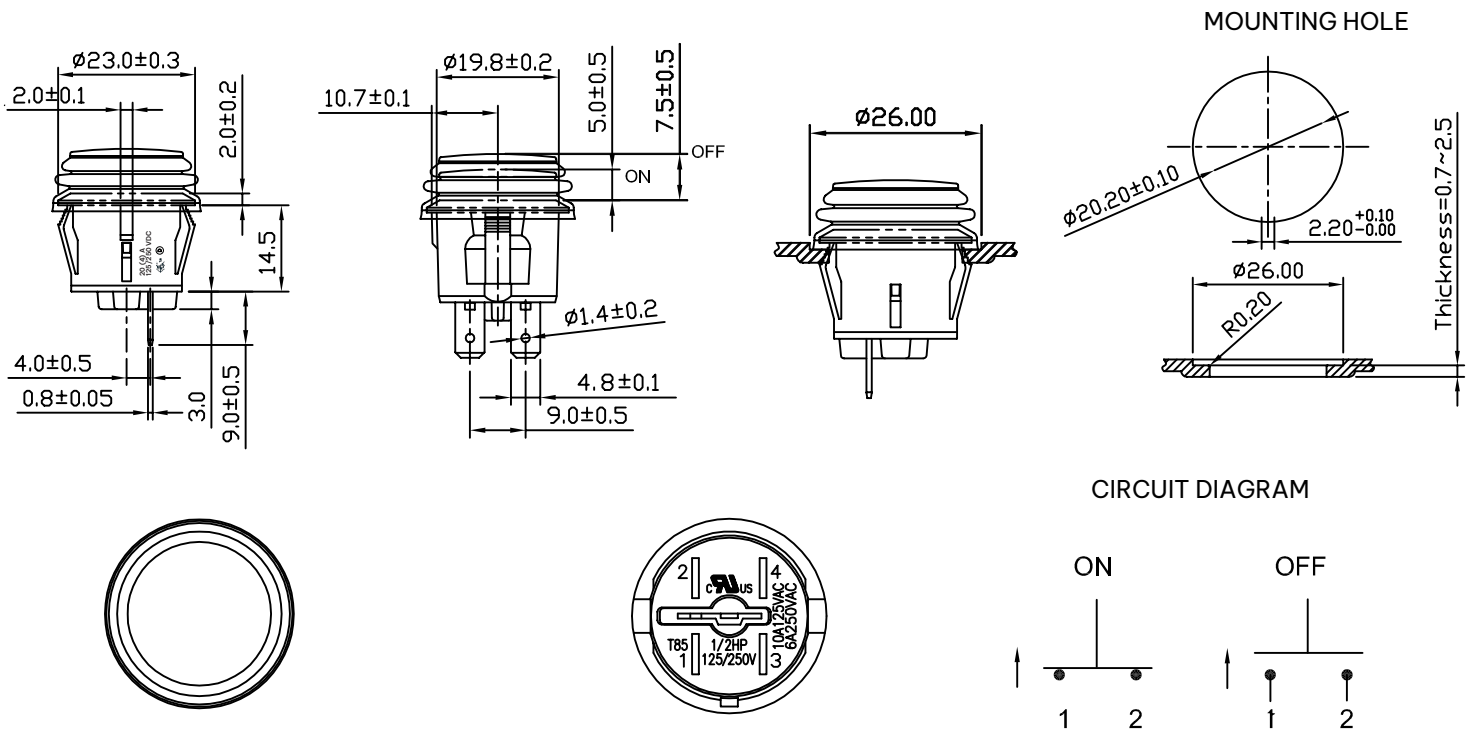


Rating:	10A 125VAC, 6A 250VAC 1/2 HP 125/250 VAC
	20A 14VDC, 10A 28VDC
Contact Resistance:	50mΩ Max.
Insulation Resistance:	DC 500V 100MΩ Min.
Dielectric Strength:	AC 1500V 1min.
Operating Temperature:	-25°C~+85°C
Switch Function:	2P OFF-ON

MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	Black, PC (94-V2)
Terminals:	Silver plated, Copper alloy
Rubber:	Black, Silicone



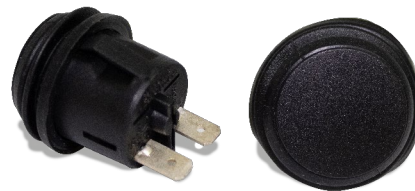
VPS-2-Q2PSI-20KNN-5



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).

Product Specifications

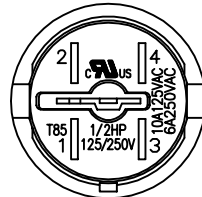
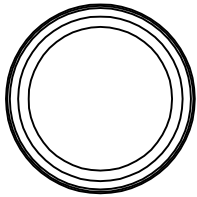
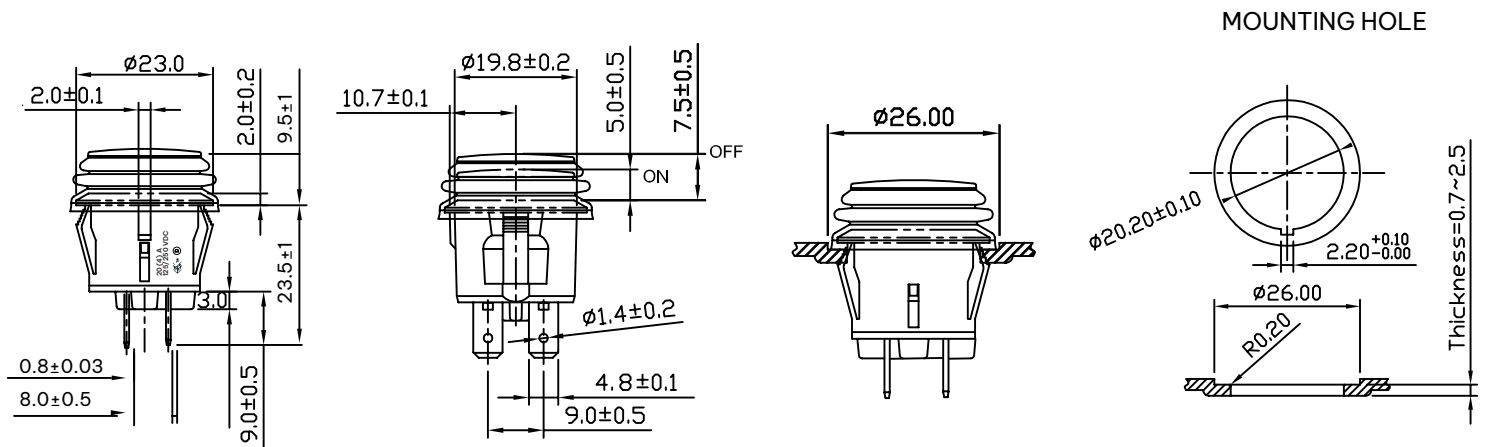


Rating:	10A 125VAC, 6A 250VAC 1/2HP 125/250VAC
	10(4)A 125/250VAC
Contact Resistance:	50mΩ Max.
Insulation Resistance:	DC 500V 100MΩ Min.
Dielectric Strength:	AC 1500V 1 minute
Operating Temperature:	-25°C~+85°C
Switch Function:	2P OFF-(ON)
Ingress Protection:	IP65

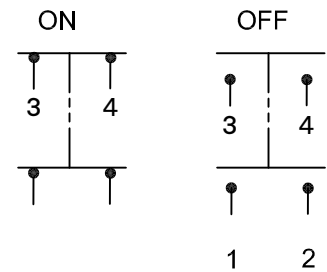
MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	Black, PC (94-V2)
Terminals:	Silver plated, Copper alloy
Rubber:	Black, Silicone



VPS-1-Q4PSI-20KNN-5

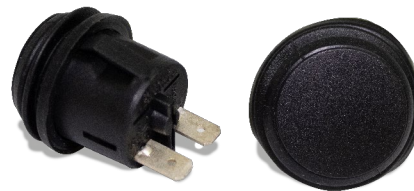


CIRCUIT DIAGRAM



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).



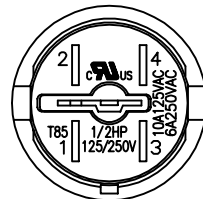
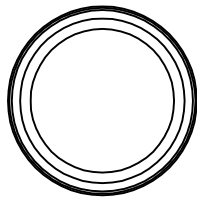
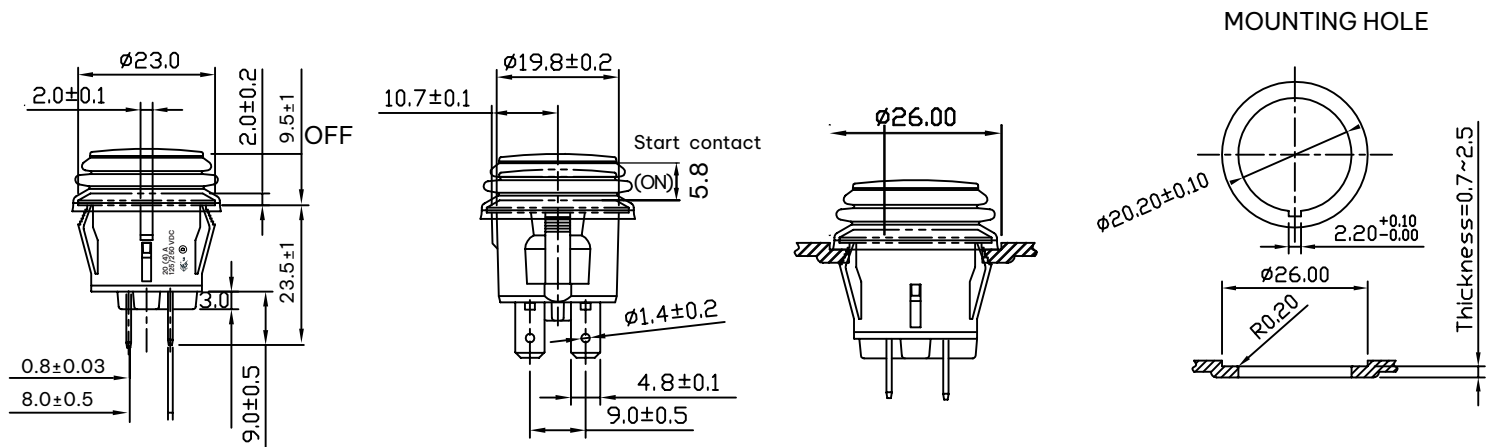
Product Specifications

Rating:	10A 125VAC, 6A 250VAC 1/2HP 125/250VAC 10(4)A 125/250VAC	
	20A 14 VDC, 10A 28 VDC	
Contact Resistance:	50mΩ Max.	
Insulation Resistance:	DC 500V 100MΩ Min.	
Dielectric Strength:	AC 1500V 1 minute	
Operating Temperature:	-25°C~+85°C	
Switch Function:	4P OFF-ON	
Ingress Protection:	IP65	

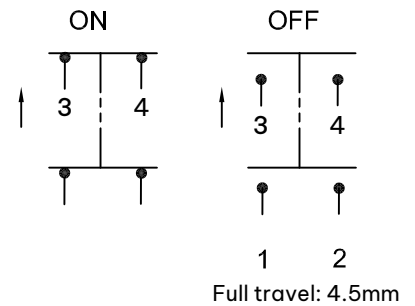
MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	Black, PC (94-V2)
Terminals:	Silver plated, Copper alloy
Rubber:	Black, Silicone



VPS-2-Q4PSI-20KNN-5



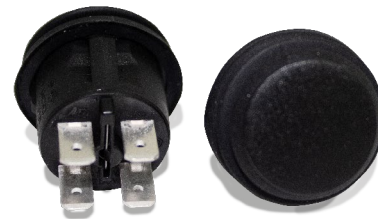
CIRCUIT DIAGRAM



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).

Product Specifications

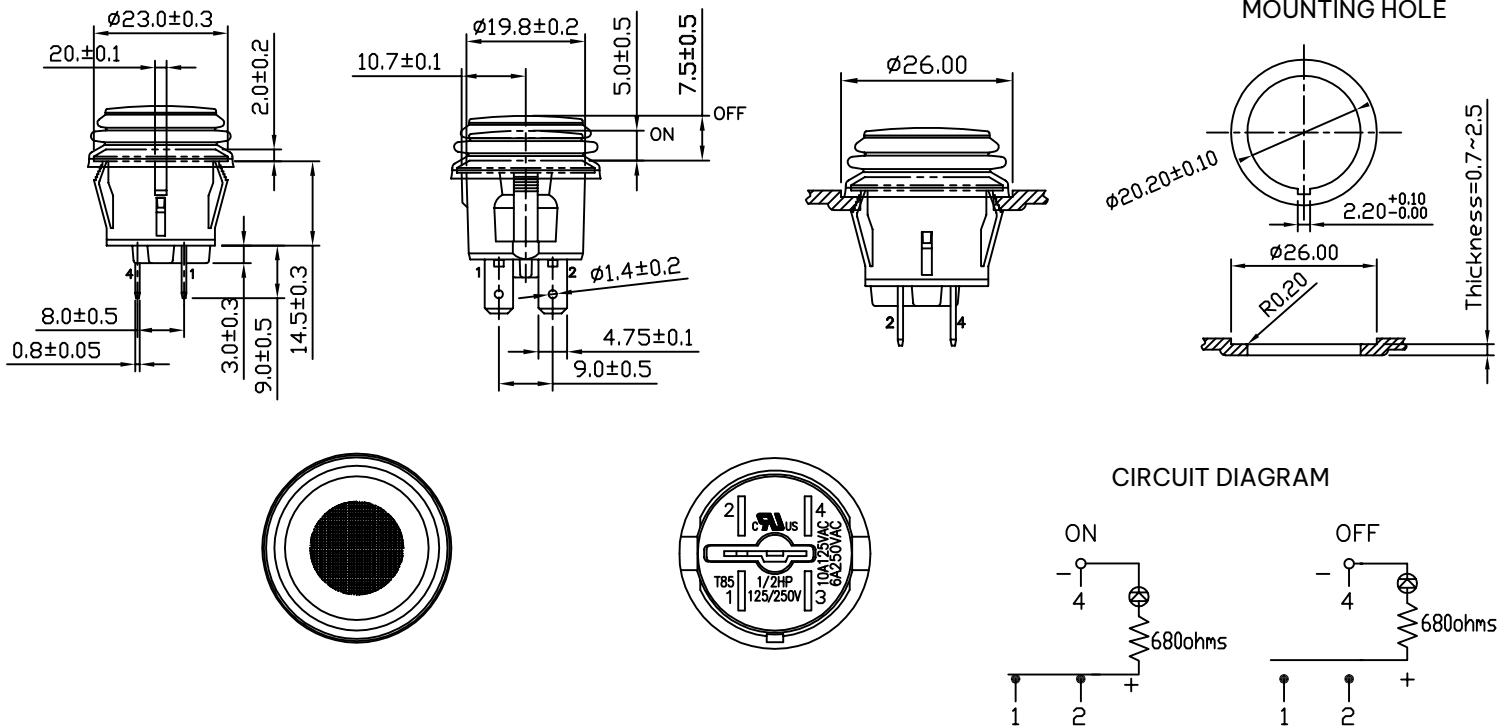


Rating:	10A 125VAC, 6A 250VDC 1/2HP 125/250AC 10(4)A 125/250VDC	
	20A 14VDC, 10A 28VDC	
Contact Resistance:	50mΩ Max.	
Insulation Resistance:	DC 500V 100MΩ Min.	
Dielectric Strength:	AC 1500V 1 minute	
Operating Temperature:	-25°C~+85°C	
Switch Function:	4P OFF-(ON)	

MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	Black, PC (94-V2)
Terminals:	Silver plated, Copper alloy
Rubber:	Black, Silicone



VPS-1-Q3PSI-20RIR-5
VPS-1-Q3PSI-20GIG-5



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).

Product Specifications

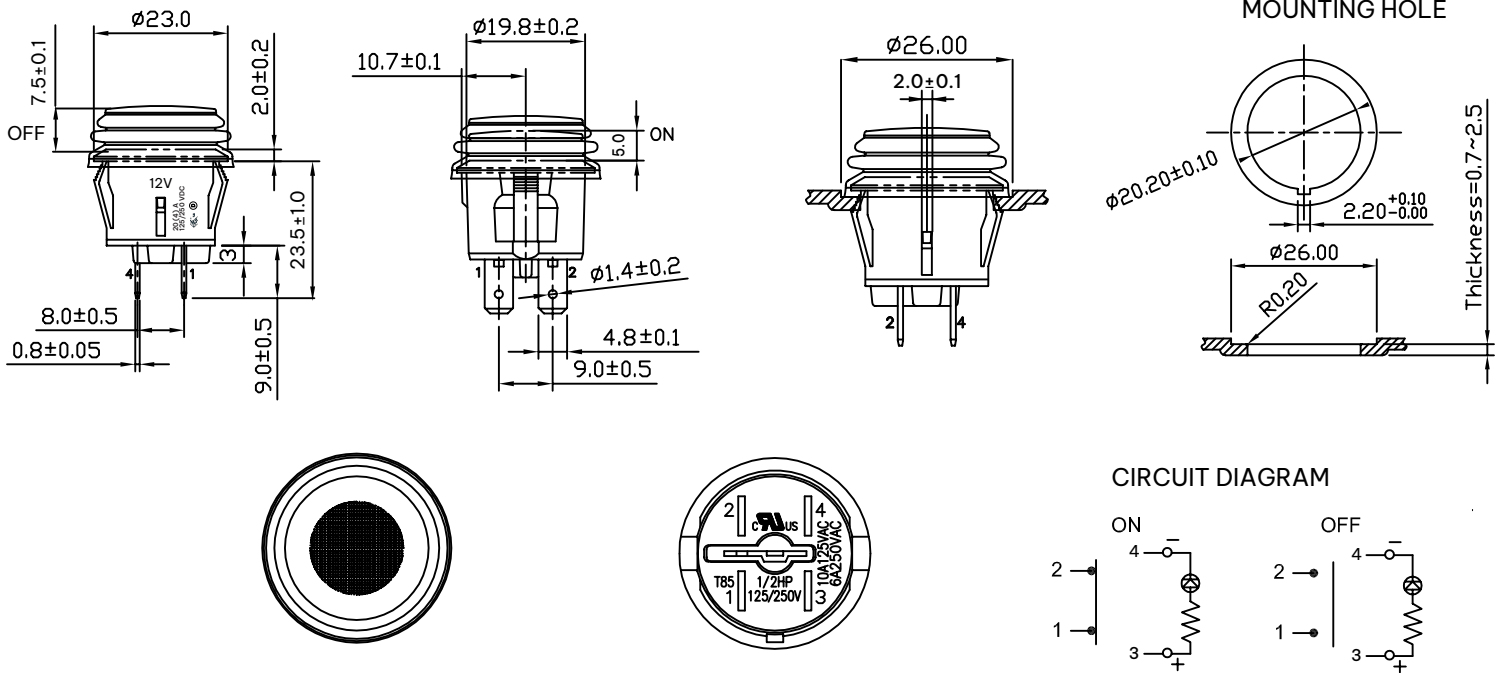
Rating:	20A 14VDC
Contact Resistance:	50mΩ Max.
Insulation Resistance:	DC 500V 100MΩ Min.
Dielectric Strenght:	AC 1500V 1 minute
Operating Temperature:	-25°C~+85°C
Switch Function:	3P OFF-ON (LED)
LED Color Available:	Red, Green

MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	PC clear (94-V2)
Terminals:	Silver plated, Copper alloy
Rubber:	Black, Silicone





VPS-1-Q4PSI-20RIR-5
VPS-1-Q4PSI-20GIG-5



Notes:

1. Tolerances unless otherwise specified: $\pm 0.5\text{mm}$
2. Dimensions are in millimeters (mm).



Product Specifications

Rating:	20A 12VDC
Contact Resistance:	50mΩ Max.
Insulation Resistance:	DC 500V 100MΩ Min.
Dielectric Strength:	AC 1500V 1 minute
Operating Temperature:	-25°C~+85°C
Switch Function:	4P OFF-ON (LED independent)
LED Color Available:	Red, Green

MATERIAL:	
Frame:	Black, Nylon 66 (94-V2)
Actuator:	PC
Terminals:	Silver plated, Copper alloy
Rubber:	Black, Silicone



Compliances and approvals

