General Specifications

Electrical Capacity (Resistive Load)

Power Level:

10A @ 125/250V AC for JPM models & 16A @ 125/250V AC for JPL models

С	Other Ratings Contact Resistance: Insulation Resistance: Dielectric Strength:	20 milliohms maximum 1,000 megohms minimum @ 500V DC 2,000V AC minimum between contacts for 1 minute minimum;
	Mechanical Life: Electrical Life:	4,000V AC minimum between contacts & case for 1 minute minimum 25,000 operations minimum 25,000 operations minimum
	Nominal Operating Force: Contact Timing: Latchdown:	JPM Single Pole 3.53N & Double Pole 6.47N JPL Single Pole 4.51N & Double Pole 9.02 N Nonshorting (break before make) Normal position - flush with barrier; latchdown position079" (2.0mm) below normal
D	Travel:	Pretravel .059" (1.5mm); Overtravel .071" (1.8mm); Total Travel .130" (3.3mm)

Materials & Finishes

Housing/Frame & Barrier:	Polyamide (UL94V-0)	Movable Contacts:	Silver alloy
Interior Seal:	Polyphenylene sulfide (UL94V-0)	Stationary Contacts:	Silver alloy plus copper
Case/Base:	Melamine (UL94V-0)	Terminals:	Brass with silver plating

Environmental Data

–10°C through +70°C (+14°F through +158°F)
90 ~ 95% humidity for 96 hours @ 40°C (104°F)
10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Dust resistant inner seal

Installation

Soldering Time & Temp: A

Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

Flammability Standards:	UL94V-0 for housing/frame, barrier, interior seal, & case/base
TV Ratings for UL:	JPM (TV-5) Overload Test @ 125V AC for 50 operations:
·	Steady State Current (rms) 7.5A; Minimum Inrush Current (peak) 111A
	JPM (TV-5) Endurance Test @ 125V AC for 25,000 operations:
	Steady State Current (rms) 5A; Minimum Inrush Current (peak) 78A
	JPL (TV-8) Overload Test @ 125V AC for 50 operations:
	Steady State Current (rms) 12A; Minimum Inrush Current (peak) 163A
	JPL (TV-8) Endurance Test @ 125V AC for 25,000 operations:
	Steady State Current (rms) 8A; Minimum Inrush Current (peak) 117A
UL:	File No. E44145 - Recognized only when ordered with marking on switch.
	Add "/U" or "/CUL" before dash in part number to order UL recognized switch.
	All JPM models certified at 10A @ 125V AC, TV5 & JPL models at 16A @ 125V AC, TV8.
VDE:	License No. 40028887 - Approved only when ordered with marking on switch.
	Add "/V" before dash in part number to order VDE approved switch.
	All JPM models approved at steady state 5A, inrush 80A, resistive 10A, & motor load 6A all at 250V AC. License No. 40039784
	All JPL models approved at steady state 8A, inrush 128A, resistive 16A, & motor load 8A all at 250V AC.



Rotaries

Slides

Tactiles

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Touch

Supplement Accessories Indicators

Toggles

Distinctive Characteristics

Industry's first molded pushbutton with TV rating. Designed to handle large inrush current. JPM models certified for TV-5 rating and JPL models for TV-8 rating.

Prominent external insulating barriers increase insulation resistance and dielectric strength.

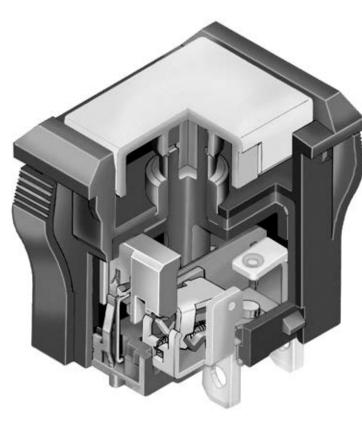
Constructed for dust resistance with interior seal of polyphenylene sulfide (PPS) between actuator and contact area.

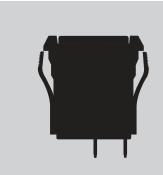
Specially designed to break light contact welds.

Snap-action contact mechanism.

Terminals are molded in and epoxy sealed to lock out flux, dust, and other contaminants.

Outer case of heat resistant resin meets UL's 94V-0 flammability standard.





Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

Actual Size JPM





Toggles

Rockers

C

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

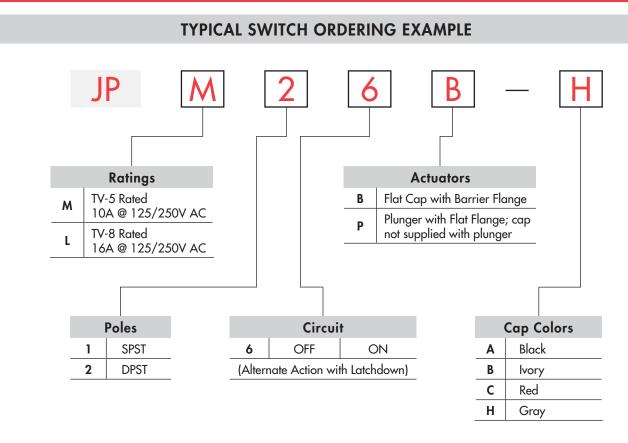
Tactiles

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Touch

Indicators

Supplement Accessories



IMPORTANT:



Switches are supplied without UL & VDE markings unless specified. UL recognized only when ordered with marking on the switch. VDE approved only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on the General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE JPM26B-H





				RATINGS			
Μ	TV-5 Rated	Power Level 10A @ 125/250V AC			25/250V AC		
L	TV-8 Rated		Power	25/250V AC			
	٢	Note: See Gener	al Specifications	page to find com	plete explanation	of TV ratings.	
			POL	ES & CIRCU	IT		_
		Plunger	Position	Connected	Terminals	Throw & Schematics	ers are switch.
Pole	Model	Normal	Down	Normal	Down	Note: Terminal numbers are actually on the switch.	
SP	JPM16 JPL16	OFF	ON	OPEN	1-1a	SPST	
DP	JPM26 JPL26	OFF	ON	OPEN	1-1a 2-2a	DPST	
	· ·		A	CTUATORS			
B Flat Cap with Barrier Flange P Plunger with Flat Flange The barrier is an integral part of the switch. This housing is black, molded polyamide The flange is an integral part of the switch. This housing is black, molded polyamide							
matte finish material. Cap details below. Mo cap supplied.							
			C	AP COLORS			
AT3021 Flat Cap for Actuator Type B with Barrier Flange				(18.0) 		The cap is flush with the barrier in normal position and .079" (2.0mm) below that in latchdown position. The latchdown feature on this	
Finish: <i>I</i>	Matte Iors Available:			L (6.8)		alternate action device provides visible, audible, and tactile feed- back. This design gives smooth, responsive operation.	
	lack	B Ivory	C Red	H	Gray		



Panel Thickness Range applies to both

JPM & JPL models.

.039" ~ .157"

 $(1.0 \text{mm} \sim 4.0 \text{mm})$

Toggles

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Programmable Illuminated PB Pushbuttons

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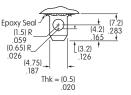
C

PANEL CUTOUT & TERMINALS

- (28.0) 1.102

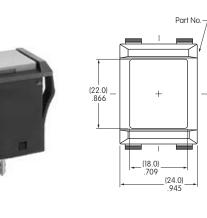
| (21.2) .835 JPM & JPL Solder Lug/ .187"(4.75mm) Quick Connect Terminals

This switch assembly, when used with connectors, is not VDE approved.

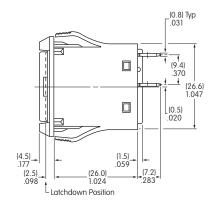


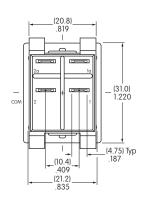
TYPICAL SWITCH DIMENSIONS

Flat Cap with Barrier Flange



JPM & JPL Single & Double Pole



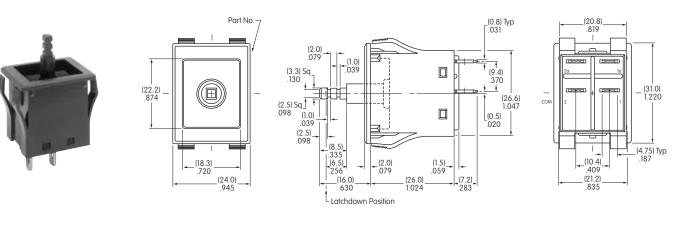


JPM26B-H

Single pole model does not have terminals 2 & 2a.

Plunger with Flat Flange





JPL16P

Single pole model does not have terminals 2 & 2a.

