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General Specifications

Electrical Capacity (Resistive Load)

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

Other Ratings

Contact Resistance: 20 milliohms maximum
Insulation Resistance: 1,000 megohms minimum @ 500V DC
Dielectric Strength: 2,000V AC minimum between contacts for 1 minute minimum;
4,000V AC minimum between contacts & case for 1 minute minimum
Mechanical Life: 25,000 operations minimum
Electrical Life: 25,000 operations minimum
Nominal Operating Force: JPM Single Pole 3.53N & Double Pole 6.47N
JPL Single Pole 4.51N & Double Pole 9.02 N
Contact Timing: Nonshorting (break before make)
Latchdown: Normal position - flush with barrier; latchdown position - .079" (2.0mm) below normal
Travel: Pretravel .059" (1.5mm); Overtravel .071" (1.8mm); Total Travel .130" (3.3mm)

Materials & Finishes

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

Environmental Data

Operating Temp Range: –10°C through +70°C (+14°F through +158°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 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
Shock: 50G (490m/s^2) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Process Seal: Dust resistant inner seal

Installation

Soldering Time & Temp: 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.

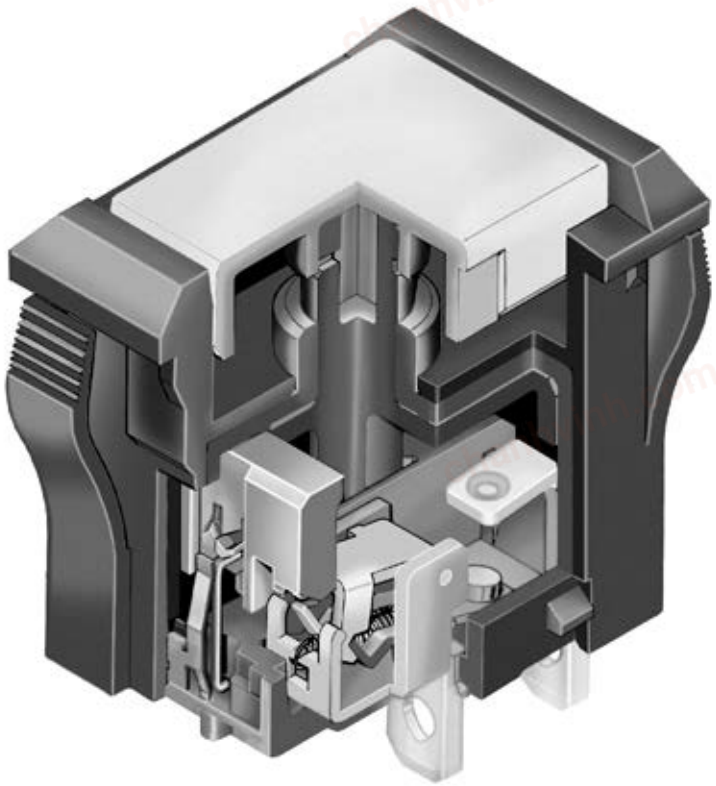
VDE: **License No. 40028887 - Approved only when ordered with marking on switch.**
Add "/V" before dash in part number to order VDE approved switch.
All JPM models approved at steady state 5A, inrush 80A, resistive 10A, & motor load 6A all at 250V AC.
License No. 40039784
All JPL models approved at steady state 8A, inrush 128A, resistive 16A, & motor load 8A all at 250V AC.

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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.

Actual Size JPM



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Series JP

Internationally Approved Pushbuttons

TYPICAL SWITCH ORDERING EXAMPLE

JP M 2 6 B — H

Ratings

M	TV-5 Rated 10A @ 125/250V AC
L	TV-8 Rated 16A @ 125/250V AC

Actuators

B	Flat Cap with Barrier Flange
P	Plunger with Flat Flange; cap not supplied with plunger

Poles

1	SPST
2	DPST

Circuit

6	OFF	ON
(Alternate Action with Latchdown)		

Cap Colors

A	Black
B	Ivory
C	Red
H	Gray

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



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Internationally Approved Pushbuttons

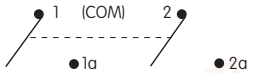
Series JP

RATINGS

M	TV-5 Rated	Power Level	10A @ 125/250V AC
L	TV-8 Rated	Power Level	16A @ 125/250V AC

Note: See General Specifications page to find complete explanation of TV ratings.

POLES & CIRCUIT

		Plunger Position		Connected Terminals		Throw & Schematics
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 

ACTUATORS

B **Flat Cap with Barrier Flange**

The barrier is an integral part of the switch. This housing is black, molded polyamide matte finish material.

Cap details below.



P **Plunger with Flat Flange**

The flange is an integral part of the switch. This housing is black, molded polyamide matte finish material.

No cap supplied.

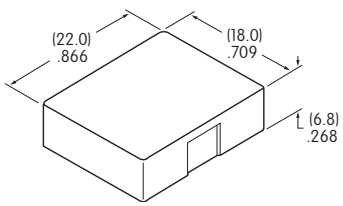


CAP COLORS

AT3021 Flat Cap for Actuator Type B with Barrier Flange

Cap Material:
Polyphenylene Oxide

Finish: Matte



The cap is flush with the barrier in normal position and .079" (2.0mm) below that in latchdown position.

The latchdown feature on this alternate action device provides visible, audible, and tactile feedback. This design gives smooth, responsive operation.

Cap Colors Available:

A Black B Ivory C Red H Gray

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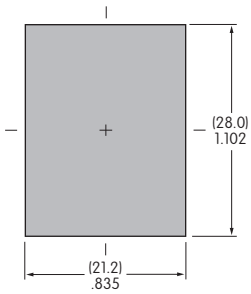
Series JP

Internationally Approved Pushbuttons

PANEL CUTOUT & TERMINALS

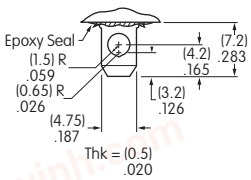
Panel Thickness Range applies to both JPM & JPL models.

.039" ~ .157"
(1.0mm ~ 4.0mm)



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

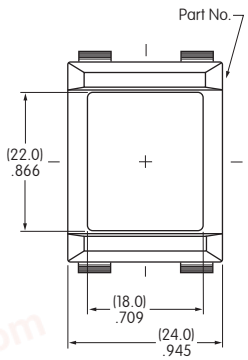
This switch assembly, when used with connectors, is not VDE approved.



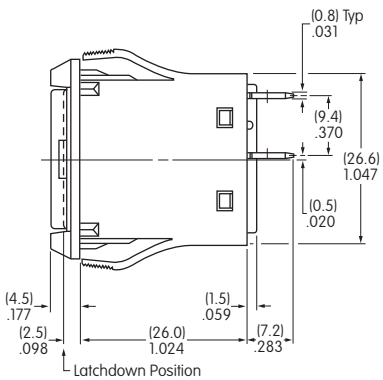
TYPICAL SWITCH DIMENSIONS

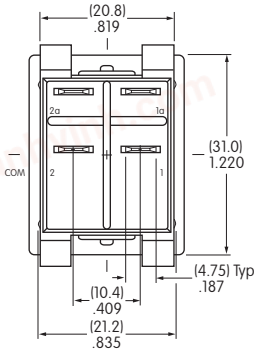
Flat Cap with Barrier Flange





JPM & JPL Single & Double Pole



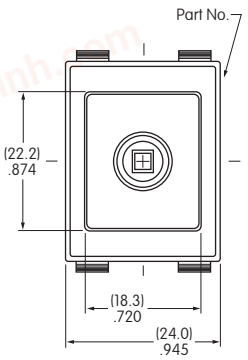


JPM26B-H

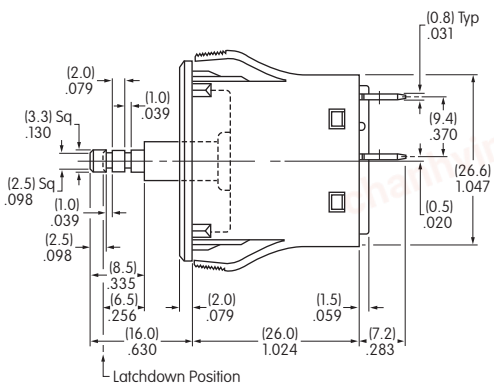
Single pole model does not have terminals 2 & 2a.

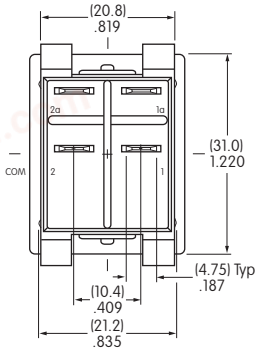
Plunger with Flat Flange





JPM & JPL Single & Double Pole





JPL16P

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