Series CB3

Keylocks Programmable Illuminated PB Pushbuttons Rockers Toggles

General Specifications

Electrical Capacity (Resistive Load)

Low/Logic Level: 50mA @ 24V DC maximum

Other Ratings

100 milliohms maximum
100 megohms minimum @ 250V DC
250V AC minimum between contacts & between contacts & case for 1 minute minimum
100,000 operations minimum
100,000 operations minimum
1.57N
.010″ (.250mm)

Materials & Finishes

Actuator:	Glass fiber reinforced polyamide (UL94V-0)
Case:	Stainless steel
Seal:	Polytetrafluoroethylene
Base:	Polyphthalamide (UL94V-0)
Movable Contacts:	Beryllium copper with silver plating
Stationary Contacts:	Brass with silver plating
Terminals:	Brass with silver plating

Environmental Data

J	Operating Temperature Range: Humidity: Vibration: Shock:	-25°C through +70°C (-13°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)
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Soldering: Reflow Soldering Recommended. See Profile A in Supplement section. Manual Soldering: See Profile A in Supplement section. Cleaning: Automated cleaning. See Cleaning Specifications in Supplement section.

Standards & Certifications

Flammability Standards:

UL94V-0 actuator & base The CB3 Series tactiles have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.

Rotaries

Slides

Tactiles



Toggles

Rockers

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Distinctive Characteristics

Sealed construction prevents contact contamination and allows automated soldering and cleaning.

.244" (6.2mm) square body allows compact mounting.

Heat tolerant resin used for actuator and base meets UL flammability rating of 94V-0 and maintains switch reliability through vapor phase and infrared convection reflow soldering.

Dome contact gives crisp tactile feedback to positively indicate circuit transfer and assures high reliability and long life – more than 100,000 operations.

Gull-winged terminals ensure mechanical stability during soldering and simplify solder joint inspection.

Insert molded terminals lock out flux, solvents, and other contaminants.

Packaged in tape-reel or partitioned tray. Tape-reel packaging meets EIA-481-D Standard.

Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of .0059" (0.15mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)



Actual Size

Indicators



Series CB3



Series CB3

PACKAGING



Tape-Reel (packaged to EIA-481-D standard)

Switches must be ordered in 1,000-piece increments when tape-reel packaging is selected.





Partitioned Tray

If less than 1,000 pieces are ordered, the switches are packaged in a partitioned tray. No code is required.



Tape-Reel Dimensions & Specifications









KEYBOARD MATRIX

Common Bus Matrix

These single pole, single throw switches can be used in a keyboard matrix and, using strapped terminals, achieve a common bus electrical configuration on a single-sided PC board.





X-Y Matrix

These single pole, single throw switches can be arranged on a single-sided PC board matrix with strapped terminals to achieve an X-Y type electrical interconnection.





Toggles

Rockers

Programmable Illuminated PB Pushbuttons

Keylocks

Indicators



Authorized Distribution Brand :



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