Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

F

Rotaries

Slides

Tactiles

÷

Touch

Supplement Accessories Indicators

# General Specifications

### **Electrical Capacity (Resistive Load)**

Power Level: 3A @ 250V AC

### **Other Ratings**

Contact Resistance:	20 milliohms maximum			
Insulation Resistance:	: 1,000 megohms minimum @ 500V DC			
Dielectric Strength:	1,000V AC minimum between contacts for 1 minute minimum;			
-	1,500V AC minimum between contacts & case for 1 minute minimum			
Mechanical Life:	30,000 cycles minimum			
Electrical Life:	10,000 cycles minimum			
Static Capability:	Withstands 15 kilovolts minimum ESD minimum (for CKM models only)			
Nominal Operating Torque:	16mm Bushing (CKM models):			
	.04 mNm (5.67 oz•in) for Flat Key			
	.08 mNm (11.33 oz•in) for Tubular Key			
	19mm Bushing (CKL models):			
	.05 mNm (7.08 oz•in) for Flat Key			
	.07 mNm (9.91 oz•in) for Tubular Key			
Contact Timing:	Break-before-make			
Angle of Throw:	90° for 2-position & 45° for 3-position			

### **Materials & Finishes**

Brass with nickel plating with ABS handle
Brass with nickel plating for tubular key;
brass with chrome plating for flat key
Glass fiber reinforced PBT for CKM models;
zinc alloy with chrome plating for CKL
LCP (Liquid Crystal Polymer)
Copper with silver plating
Copper with silver plating
Copper
Silver

### **Environmental Data**

<b>Operating Temperature Range:</b>	–25°C through +70°C (–13°F through +158°F)
Humidity:	90 ~ 95% humidity for 240 hours @ 40°C (104°F) for CKM;
	90 ~ 95% humidity for 96 hours @ 40°C (104°F) for CKL
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 1.5mm for CKM or 0.7mm for CKL traversing the
	frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s <sup>2</sup> ) acceleration for CKM; 30G (294m/s <sup>2</sup> ) acceleration for CKL; (CKM & CKL tested
	in 6 right angled directions, with 5 shocks in each direction)

#### Installation

Mounting Torque:	1.5 Nm (13.28 lb•in) maximum				
Soldering Time & Temperature:	Manual Soldering: See Profile A in Supplement section.				

Toggles

Rockers

# **Distinctive Characteristics**

High insulating material for 16mm CKM models withstands over 15 kilovolts of electrostatic discharge, thus providing antistatic feature

Pushbuttons	antistatic feature.
ninated PB	Rugged, die cast housing 19mm higher security requirements.
Programmable Illuminated PB	Vertically rotating switching mec self-cleaning sliding contacts for long operating life.
Keylocks <b>H</b>	16mm and 19mm diameter bush
Rotaries	CKL and CKM on-off-on models push-and-lock mechanism which and slide over stationary contact
Slides	Available in both flat and tubula reversible for easier setting.
Tactiles	Epoxy sealed terminals prevent e contaminants.
Tilt	Interior construction provides sec
Touch	High dielectric strength of 1,500 and case.

CKL models designed for

hanism combines with high reliability and



with tubular keys have allows contactor to drop ts.

ar key styles; flat key is

entry of flux and other

al for contact area.

volts between contacts



Actual Size CKM with Tubular Key





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Supplement Accessories Indicators

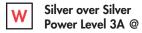
#### Toggles **TYPICAL SWITCH ORDERING EXAMPLE** Rockers CK Keylocks Programmable Illuminated PB Pushbuttons Keys **Bushings** Poles Terminals F Flat Μ 16mm Diameter L 19mm Diameter 1 SPDT Т Tubular 01 Solder Lug F **Contact Material Circuits & Key-Removable Positions** Code Pos. 1 Pos. 2 Pos. 3 Key Removes Silver W Rated 3A @ 250V AC Rotaries 2A ON NONE ON Positions 1 and 3 2B ON NONE ON Position 1 3E OFF Position 2 ON ON Slides Tactiles DESCRIPTION FOR TYPICAL ORDERING EXAMPLE CKM12AFW01 ÷ Touch One key supplied with each switch Indicators SPDT ON-NONE-ON Circuit Key Removable in 16mm Diameter Bushing Positions 1 and 3 Supplement Accessories CK-M12A Silver Contacts Rated 3A @ 250V AC Solder Lug Terminals

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# Sorios CK

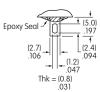
	<u>Seri</u>	es Cl				High Security Keylocks				
Toggles		POLES, CIRCUITS & KEY-REMOVABLE POSITIONS								
Rockers	Pole & Key Positions Throw Model Pos 1 Pos 2 Pos 3			Connected Terminals (Terminal numbers are on switch) Pos 1 Pos 2 Pos 3			Schematic	<ul> <li>Exercise Key Removable</li> <li>Not Removable</li> <li>Aximum Arc</li> </ul>		
Roc	SPDT	CKM12A CKL12A	ON	NONE	ON	COM-1		COM-2	COM	POS 1 • 3
Pushbuttons	SPDT	CKM12B CKL12B	ON	NONE	ON	COM-1		COM-2	• • 1 2	POS 1 POS 1 POS 1 3
Illuminated PB	SPDT	CKM13E CKL13E	ON	OFF	ON	COM-1	OPEN	COM-2		POS 1 <sup>2</sup> 3
ible Illum	KEYS									
Programmable	F Flat Key T Ubular Key (must be pressed inward to actuate)							ctuate)		
Keylocks <b>J</b>	AT4147 for CKM 16mm Brass with Nickel Plating key base & ABS key handle AT4153 for CKL 19mm Brass with Chrome Plating (crosshatch texture on handle) AT4152 for CKL 19mm Brass with Nickel Plating (smooth)									
Rotaries	One key provided with each switch (no master key available) For ordering additional keys, indicate the same key number that is engraved on the face of your switch. One key provided with each switch (no master key available) For ordering additional keys, indicate the same key number that is engraved on the face of your switch.								icate the same key	
Slides	Randomly assigned key number (001 through 010 for CKM models & 001 through 025 for CKL models).					CKM	Randomly assigned key number (001 through 025 for CKM models & 001 through 050 for CKL models).			
S		Typical Key Ordering Example: AT4153-001					Typical Key Ordering Example: AT4146-001			
Tactiles	AT4147		(20.0) .787		AT4153		AT4146		(26.0) 1.024	AT4152
±.	-	(40.8	(20.0) .787	38	(22.3)	> <	(7.0) Dia 276 (10.5) Dia .413		L (3, 1,25,0) .984 (33,5) 1,319	(19.0) .748
Touch	(1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.8) (1.9) (1								.886 (35.5)	
Indicators		.07		CONTAC	T MATE	RIALS,	RATING	S & TER	MINALS	

## **CONTACT MATERIALS, RATINGS & TERMINALS**

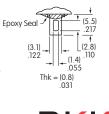


Power Level 3A @ 250V AC

01 Solder Lug Terminals Solder Lug Terminal for CKM



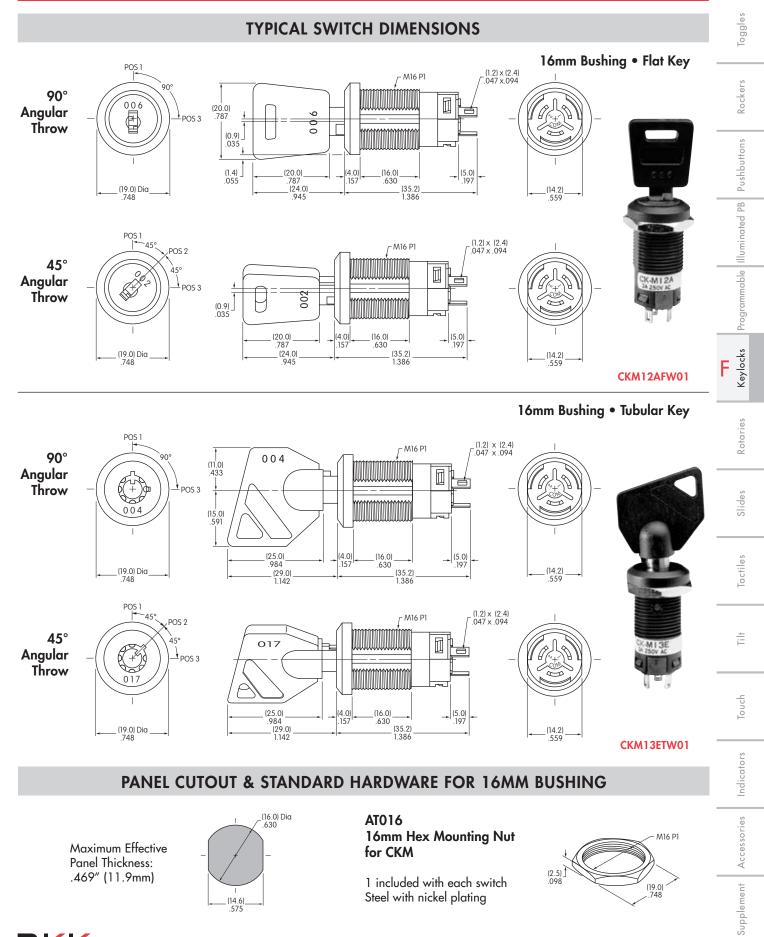
Solder Lug Terminal for CKL



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**F6** 

Supplement Accessories





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