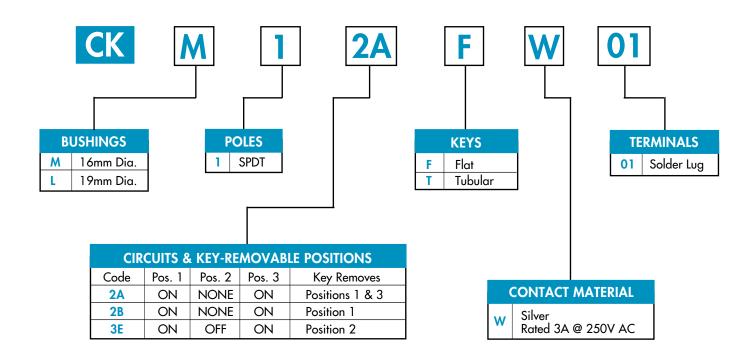


TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

CKM12AFW01







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; 1,500V AC minimum between contacts & case

Mechanical Life: 30,000 cycles minimum Electrical Life: 10,000 cycles minimum

Static Capability: Withstands 15 kilovolts ESD (for CKM models only)

Nominal Operating Torque: 16mm Bushing (CKM models):

.04 milliNewton/meter (5.67 ounce-in) for Flat Key
.08 milliNewton/meter (11.33 ounce-in) for Tubular Key

19mm Bushing (CKL models):

.05 milliNewton/meter (7.08 ounce-in) for Flat Key .07 milliNewton/meter (9.91 ounce-in) for Tubular Key

Contact Timing: Break before make

Angle of Throw: 90° for 2-position & 45° for 3-position

Materials & Finishes

Keys for CKM: Brass with nickel plating with PBT handle Brass with nickel plating for tubular key;

brass with chrome plating for flat key

Housing/Bushing: Fiberglass reinforced PBT for CKM models;

zinc alloy with chrome plating for CKL

Base: LCP (Liquid Crystal Polymer)
Common & Contact Terminals: Copper with silver plating

Movable Contactor: Silver & copper alloy

Environmental Data

Operating Temp Range: -25°C through +70°C (-13°F through +158°F)

Humidity: 90 ~ 95% for 96 hours @ 40°C (104°F)

Vibration: 10 ~ 55 Hz with peak-to-peak amplitude of 0.7mm traversing the frequency range

& returning in 1 minute; 3 right angled directions for 2 hours

Shock: 30g acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Mounting Torque: 1.5 Newtons/meter (13.28lb/in)

Soldering Time & Temperature: 3 seconds @ 350°C

Process Seal: Not available

High Security Keylock Switches

POLES, CIRCUITS, & KEY-REMOVABLE POSITIONS									
Pole & Throw	Model	Key Positions Pos 1 Pos 2 Pos 3			Connected Terminals (Terminal numbers are on switch) Pos 1 Pos 2 Pos 3			Schematic	 = Key Removable = Not Removable = Maximum Arc
SPDT	CKM12A CKL12A	ON	NONE	ON	COM-1		COM-2	сом	POS1 • 3
SPDT	CKM12B CKL12B	ON	NONE	ON	COM-1		COM-2	1 2	POS 1 •
SPDT	CKM13E CKL13E	ON	OFF	ON	COM-1	OPEN	COM-2	COM O P 0 1 Z 2	POS 1 O 3

KEYS & LOCK MECHANISMS

Flat Key

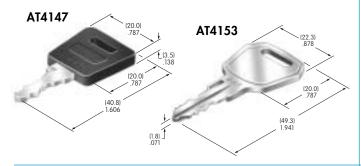
AT4147 for CKM 16mm:

Brass with Nickel Plating key base & PBT key handle; AT4153 for CKL 19mm:

Brass with Chrome Plating (crosshatch texture on handle)
1 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.

Randomly assigned key number (001 through 010 for CKM models & 001 through 025 for CKL models).

Typical Key Ordering Example: AT4153-001



Locking Mechanism for CKM includes 5 tumblers (disks).

Tubular Key
(must be pressed inward to actuate)

AT4146 for CKM 16mm:

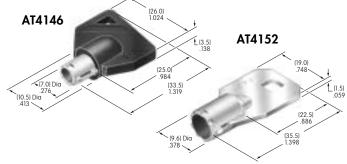
Brass with Nickel Plating key base & PBT key handle; AT4152 for CKL 19mm:

Brass with Nickel Plating (smooth)

1 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.

Randomly assigned key number (001 through 025 for CKM models & 001 through 050 for CKL models).

Typical Key Ordering Example: AT4146-001



Locking Mechanism for CKL includes 4 tumblers (disks).

CONTACT MATERIALS, RATINGS, & TERMINALS

W

Silver over Silver Power Level 3A @ 250V AC

Solder Lug Terminal for CKM (2.7) (2.7) (2.4) (2.4) (2.7) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4) (2.4)

Solder Lug Terminal for CKL



01

Solder Lug Terminals

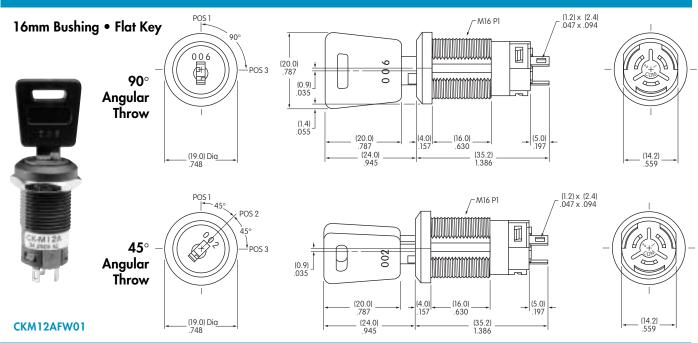
Hole for solder lug terminals on CKM is .047" X .094"and for CKL is .055" X .110". These terminal holes accommodate 1 solid 18-gauge wire or 2 solid or stranded 20-gauge wires.



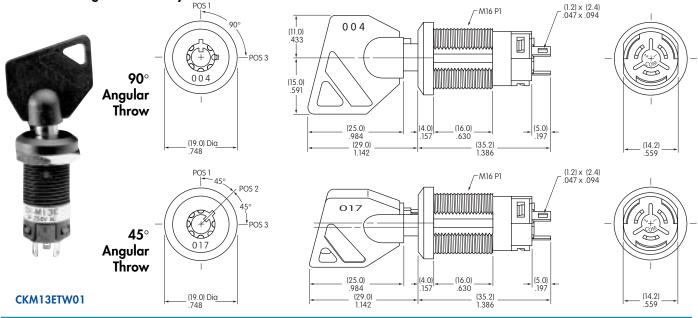
Series CK

High Security Keylock Switches

TYPICAL SWITCH DIMENSIONS

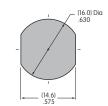


16mm Bushing • Tubular Key



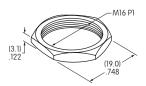
PANEL CUTOUT & STANDARD HARDWARE FOR 16MM BUSHING

Maximum Effective Panel Thickness: 11.9mm (.469")



AT016 16mm Hex Mounting Nut for CKM

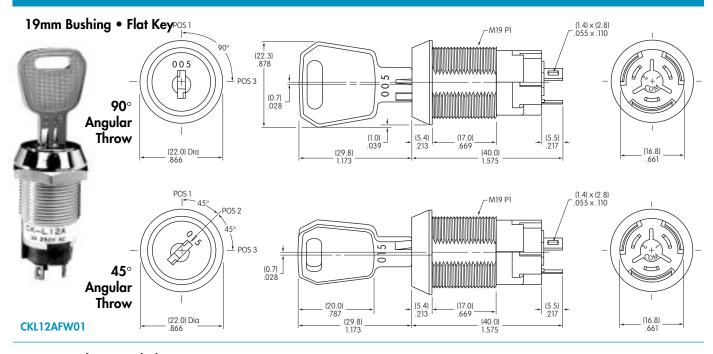
1 included with each switch Brass, nickel plating

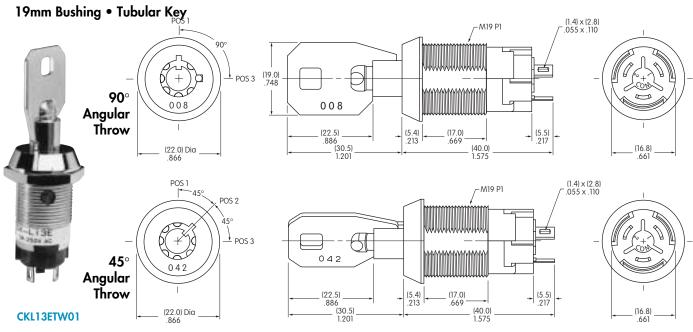




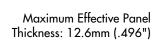


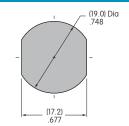
TYPICAL SWITCH DIMENSIONS





PANEL CUTOUT & STANDARD HARDWARE FOR 19MM BUSHING





AT019 19mm Hex Mounting Nut for CKL

1 included with each switch Brass, nickel plating

