

CM-1100 & 2000 Series Cast Aluminum Key Switches

INSTALLATION INSTRUCTIONS



PACKAGE CONTENTS

- (1) Heavy duty 1/4" thick aluminum faceplate
- (2) Tamper proof screws and driver
- (1) Color coded 18 AWG soldered leads
- (1) Weatherproof gasket (CM-2200 Series only)
- (1) Lock ring

Note: Mortise Cylinder Sold Separately

1. GENERAL DESCRIPTION

Camden key switches are designed to work with most 1", 1 1/8" or 1 1/4" mortise cylinders, and with different types of cams. One or two switches may be installed, either momentary and/or maintained (alternating on/off).

2. SPECIFICATIONS

Input Voltage	12-24V AC/DC
Contact Rating	6A @ 30VDC (Standard), 15A @ 30VDC (Optional)
Switch Life	100,000 cycles
Temp Range	32°F to 185°F (0°C to +85°C)
Standard Finish	Brushed aluminum
Dimensions	CM-1100: 4-1/2" H x 2-3/4" W x 1.5" D (114mm x 70mm x 38mm) CM-2000: 4-1/2" H x 1-3/4" W x 1.5" D (114mm x 44mm x 38mm)

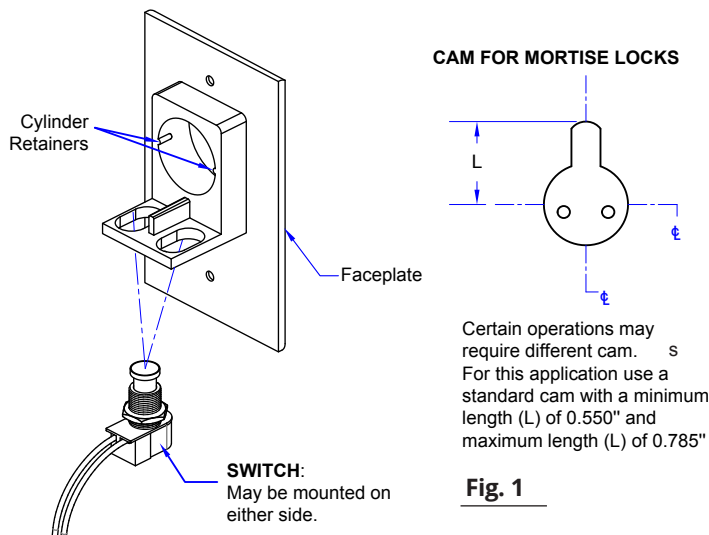
3. INSTALLATION

- The switch (es) provided may be mounted in either the left or the right hole on the back of the faceplate. Thread the octagonal nut (spacer ring) on to the bushing (stem) of the switch before placing the switch in the hole.
- Insert the switch up through the bottom of the desired hole. Secure the switch in place by screwing the round threaded washer onto the top of the switch.

- Fit the mortise cylinder through the front of the face plate being sure to align the grooves on the sides of the cylinder with the corresponding "retainers" on the back of the faceplate.
- Push firmly on the cylinder, until it snaps into place, lying flush in the front of the faceplate (aluminum models only). Note that some cylinders may appear not to fit in the face plate. If the grooves on the side of the cylinder are irregular and do not align with the retainers on the back of the faceplate, use a metal file to file down the retainers slightly.

Note – do not file the retainers off completely as they prevent the cylinder from spinning in the face plate.

- Thread the brass cylinder lock ring onto the back of the cylinder, and tighten in place.
- Turn the key in the cylinder, and ensure the cam hits the top of the switch squarely in the center. Adjust the switch in the slotted hole until the cam hits in the center. It does not affect operation of the cam if the cylinder rests against the switch, so long as the switch is not fully depressed until activated by a turn of the key. If the cam does not depress the switch, or blocks the switch from resetting, raise or lower the octagon nut located under the switch, as needed. Extra spacers are provided and may be used as required.
- Once the electrical connections are completed (see fig 2), attach the unit to the switch box, wall, or receptacle box using the supplied tamperproof or stainless steel Phillips screws. For outdoor use, place the rubber weather proofing gasket behind the faceplate prior to securing to the back box or wall.



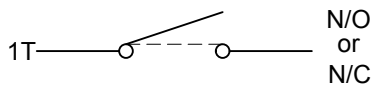
CM-1100 & CM-2000 SERIES KEY SWITCHES

INSTALLATION INSTRUCTIONS

4. WIRING

WIRING LAYOUT & COLOR CODING						
SWITCH TYPE	1 SPST MOMENTARY N.O. or N.C.	2 SPST MAINTAINED N.O. or N.C.	3 SPDT MOMENTARY	4 SPDT MAINTAINED	5 DPDT MOMENTARY	6 DPDT MAINTAINED
COMMON	BLACK	BLACK	GREY	GREY	GREY (X2)	GREY (X2)
NORMALLY OPEN	BLACK	BLACK	BLUE	ORANGE	BLUE (X2)	ORANGE (X2)
NORMALLY CLOSED	BLACK	BLACK	ORANGE	ORANGE	ORANGE (X2)	ORANGE (X2)

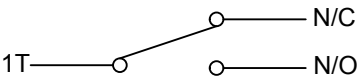
SPST



Momentary: When the switch is pressed the current pole will change to the opposite state until released.

Maintained: When the switch is pressed it will provide the opposite pole until the button is pressed again

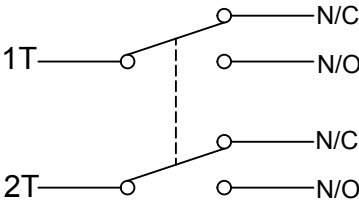
SPDT



Momentary: When the switch is pressed it will provide a change of state on the N.O. & N.C. poles until released

Maintained: When the switch is pressed it will provide a change of state on the N.O. & N.C. poles until button pressed again

DPDT



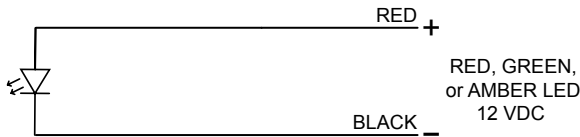
Momentary: When the switch is pressed it will provide a change of state on both of the N.O. & N.C. poles until released

Maintained: When the switch is pressed it will provide a change of state on both of the N.O. & N.C. poles until pressed again

Fig. 2

5. OPTIONAL WIRING

Key Switches may be ordered with optional LED's. These drawings show the various wiring configurations of the LED's.



NOTE:
The 560Ω Resistor is integrated with the LED.
These LEDs are designed for DC Voltage only.

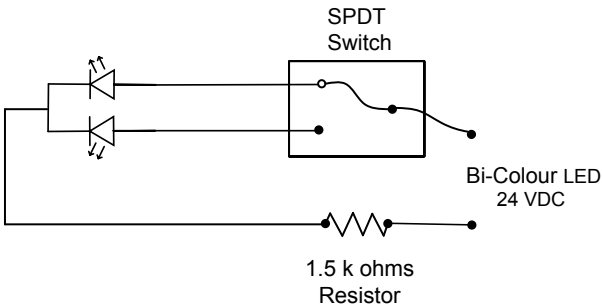
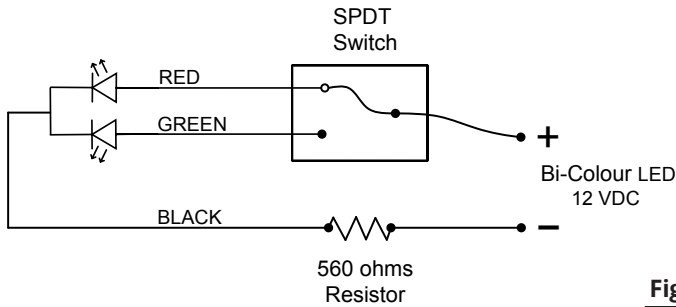


Fig. 3

6. ORDERING INFORMATION FOR REPLACEMENT PARTS

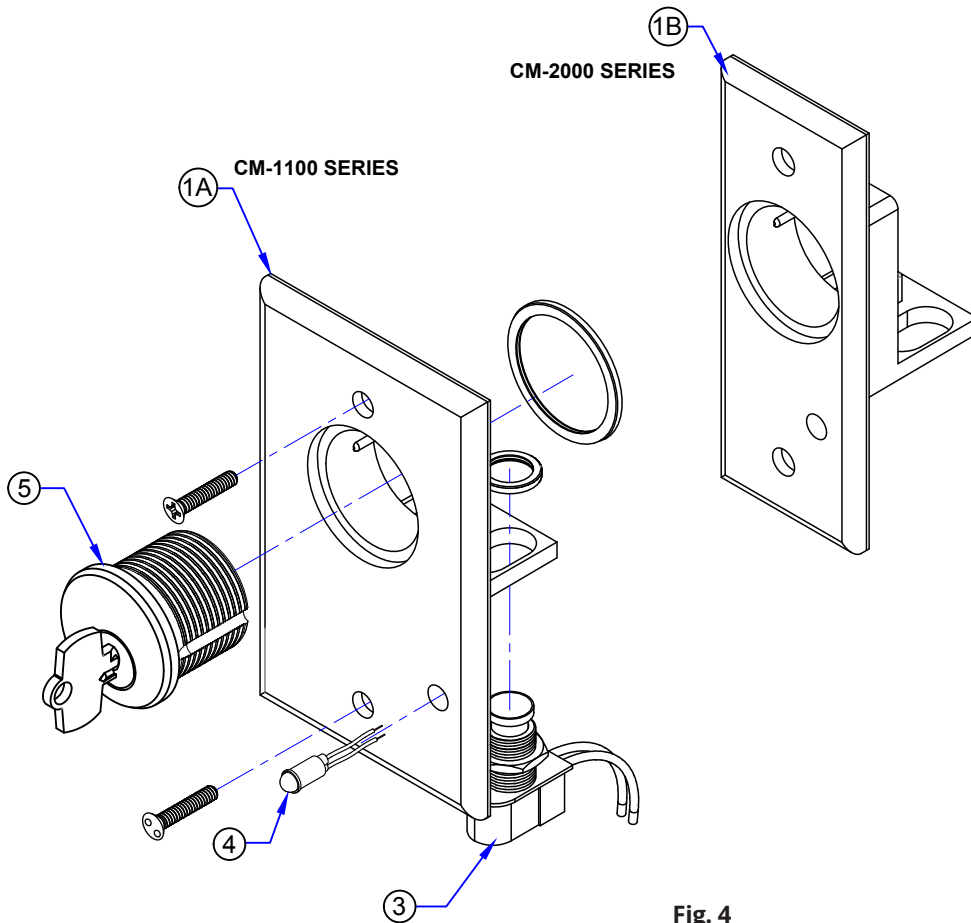
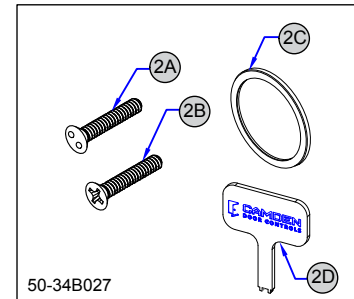


Fig. 4

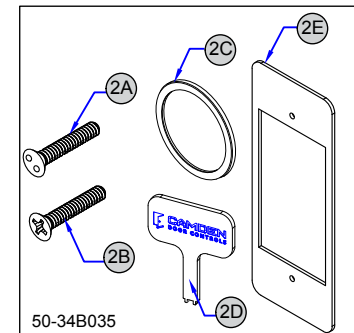
NOTE:

1. CM-1100 and CM-2000 Series with option to install one or two switches (SPST, SPDT or DPDT) either momentary and/or maintained. (Refer to switch options table)

CM-1100 SERIES PARTS KIT



CM-2000 SERIES PARTS KIT



ITEM NUMBER	PART NUMBER	DESCRIPTION
1	A. CM-1100 SERIES	DIE-CAST ALUMINUM (SINGLE GANG) FACE PLATE FOR FLUSH MOUNT KEY SWITCHES
	60-41A001	
	B. CM-2000 SERIES	DIE-CAST ALUMINUM (MULLION) FACE PLATE FOR FLUSH MOUNT KEY SWITCHES
	60-41A002	

PARTS KIT

ITEM NUMBER	PART NUMBER	DESCRIPTION
2	CM-1100 SERIES	(A) 6-32 X 3/4 SNAKE EYE TAMPER PROOF SCREWS (SNAKE EYE) (B) 6-32 X 3/4 FLAT HEAD PHILLIPS ZINC PLATED SCREWS (C) CYLINDER LOCK RING (D) KEY FOR TAMPER PROOF SCREWS (SNAKE EYE)
	60-34B027	
	CM-2000 SERIES	(A) 6-32 X 3/4 SNAKE EYE TAMPER PROOF SCREWS (SNAKE EYE) (B) 6-32 X 3/4 FLAT HEAD PHILLIPS ZINC PLATED SCREWS (C) CYLINDER LOCK RING (D) KEY FOR TAMPER PROOF SCREWS (SNAKE EYE) (E) MULLION NEOPRENE GASKET
	60-34B035	

CM-1100 & CM-2000 SERIES KEY SWITCHES

INSTALLATION INSTRUCTIONS

SWITCH OPTIONS					
ITEM NUMBER	MODEL NUMBER		QTY	PART NUMBER	DESCRIPTION
	SINGLE GANG	MULLION			
	CM-1100	CM-2000	1	60-68D046	SPST MOMENTARY CONTACT SWITCH, N/O 6A @125V AC, 3A@ 30V DC
	CM-1105	CM-2005	1	60-68D048	SPST MOMENTARY CONTACT SWITCH, N/C 6A @125V AC, 3A@ 30V DC
	CM-1110	CM-2010	1	60-68D049	SPST MAINTAINED CONTACT SWITCH, ON/OFF 6A @125V AC, 3A@ 30V DC
	CM-1120	CM-2020	1	60-68D052	SPDT MOMENTARY CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1130	CM-2030	1	60-68D054	SPDT MAINTAINED CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1150	CM-2050	2	60-68D052	SPDT MOMENTARY CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1160	CM-2060	2	60-68D054	SPDT MAINTAINED CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1170	CM-2070	1	60-68D052	SPDT MOMENTARY CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
			1	60-68D054	SPDT MAINTAINED CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1180	CM-2080	1	60-68D053	DPDT MOMENTARY CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1182	CM-2082	2	60-68D053	DPDT MOMENTARY CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1190	CM-2090	1	60-68D055	DPDT MAINTAINED CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC
	CM-1192	CM-2092	2	60-68D055	DPDT MAINTAINED CONTACT SWITCH, 6A @125V AC, 3A@ 30V DC

SINGLE LED OPTIONS					DOUBLE LED OPTIONS			
ITEM NUMBER	MODEL NUMBER	QTY	PART NUMBER	DESCRIPTION	MODEL NUMBER	QTY	PART NUMBER	DESCRIPTION
4	CM-XXXX-7012	1	60-73C008	RED 12V LED	CM-XXXX-70122	2	60-73C008	RED 12V LEDS
	CM-XXXX-7024	1	60-73C010	RED 24V LED	CM-XXXX-70242	2	60-73C010	RED 24V LEDS
	CM-XXXX-7112	1	60-73C009	GREEN 12V LED	CM-XXXX-71122	2	60-73C009	GREEN 12V LEDS
	CM-XXXX-7124	1	60-73C011	GREEN 24V LED	CM-XXXX-71242	2	60-73C011	GREEN 24V LEDS
	CM-XXXX-7212	1	60-73C009	GREEN 12V LED	CM-XXXX-72122	2	60-73C009	GREEN 12V LEDS
		1	60-73C008	RED 12V LED		2	60-73C008	RED 12V LEDS
	CM-XXXX-7224	1	60-73C011	GREEN 24V LED	CM-XXXX-72242	2	60-73C011	GREEN 24V LEDS
		1	60-73C010	RED 24V LED		2	60-73C010	RED 24V LEDS
	CM-XXXX-7412	1	60-73C014	AMBER 12V LED	CM-XXXX-74122	2	60-73C014	AMBER 12V LEDS
	CM-XXXX-7424	1	60-73C012	AMBER 24V LED	CM-XXXX-74242	2	60-73C012	AMBER 24V LEDS
	CM-XXXX-7612	1	60-66B001-12	BI-COLOR 12V (3 WIRE) LED	CM-XXXX-76122	2	60-66B001-12	BI-COLOR 12V (3 WIRE) LED
	CM-XXXX-7624	1	60-66B001-24	BI-COLOR 24V (3 WIRE) LED	CM-XXXX-76242	2	60-66B001-24	BI-COLOR 24V (3 WIRE) LED

OPTIONAL MORTISE CYLINDERS

ITEM NUMBER	PART NUMBER	DESCRIPTION
5	CM-1000/60KD	MORTISE CYLINDER 1 1/8", KEYED DIFFERENT (SOLD SEPARATELY)
	CM-1000/60KA	MORTISE CYLINDER 1 1/8", KEYED ALIKE (SOLD SEPARATELY)
	CM-307	MORTISE CYLINDER HOUSING FOR BEST™ STYLE IC CORE (SOLD SEPARATELY)
	CM-308	BEST™ STYLE IC CORE, KEYED DIFFERENT (SOLD SEPARATELY)

COMPATIBLE MOUNTING BOX OPTIONS

ITEM NUMBER	PART NUMBER	DESCRIPTION
6	CM-1100 SERIES	
	CM-34AL	SINGLE GANG ALUMINUM BOX, SURFACE MOUNT 2 7/8"W X 4 5/8"H X 2"D (73MM X 117MM X 51MM)
	CM-66	FLUSH BOX & DRESS PLATE, STANDARD DEPTH BOX WITH 7" X 7" DRESS PLATE HEAVY GAUGE STAINLESS STEEL
	CM-31	SLEEVE COVER FOR STANDARD 2 3/4" X 4 1/4" (69MM X 110MM) SURFACE ELECTRICAL BOX. HEAVY GAUGE STAINLESS STEEL
	CM-CPC1	VANDAL AND WEATHER RESISTANT CLEAR LIFT COVER
	CM-34BL	SINGLE GANG BLACK ABS BOX, SURFACE MOUNT 2 7/8" W X 4 5/8"H X 1 3/4"D (73MM X 117MM X 44MM)
	CM-2000 SERIES	
	CM-23D	SURFACE BOX WITH EXTRA DEPTH, FLAME AND IMPACT RESISTANT BLACK POLYMER (ABS) 1 3/4" W X 4 1/2"H X 1 3/4"D (46MM X 117MM X 43MM)