

# C&K SD Series Low Profile DIP Switches



H

DIP

## Features/Benefits

- Low profile design saves space
- Thru-hole and surface mount models
- Tape and reel packaging available
- Sealed with top tape

## Typical Applications

- Address switch for industrial controls
- Logic switching for computers and peripherals
- Function controlling for numerous applications



## How To Order

Complete part numbers for SD Series are shown on pages H-7 thru H-8. All switches supplied in "OFF" position in rigid dispensing tubes or tape and reel packaging.

## Specifications

SWITCH FUNCTION: SPST - 2, 3, 4, 5, 6, 7, 8, 9, 10 & 12 positions

CONTACT RATING:

Carry: 100 mA @ 50 V DC max.

Switch: 0.1 mA @ 5 V DC min to 100 mA @ 25 V DC max.

MECHANICAL AND ELECTRICAL LIFE: 2,000 make-and-break cycles at full load, each circuit.

CONTACT RESISTANCE: Below 50 milliohms typ. initial @ 2-4 V DC, 100mA.

INSULATION RESISTANCE:  $10^9$  ohms min.

DIELECTRIC STRENGTH: 500 V RMS min. @ sea level between adjacent terminals.

STORAGE & OPERATING TEMPERATURE: -40°C to 85°C.

OPERATING TEMPERATURE: -20°C to 85°C.

PACKAGING: Thru-hole switches supplied in rigid dispensing tubes in full-tube quantities only; this may effect order quantity. Surface mount switches available in tape and reel packaging by added 'R' to end of part number; 1,000 pieces per reel. Switch position 1 denotes pin number 1. All switch actuators in 'OFF' position, standard.

## Materials

CASE & COVER: Thru-hole: polyester (PBT). Surface Mount: (PPA), flame retardant (UL 94V-0).

ACTUATOR: Nylon, flame retardant (UL 94V-0)

CONTACTS: Copper alloy with gold plate.

TERMINALS: Copper alloy with tin lead plate.

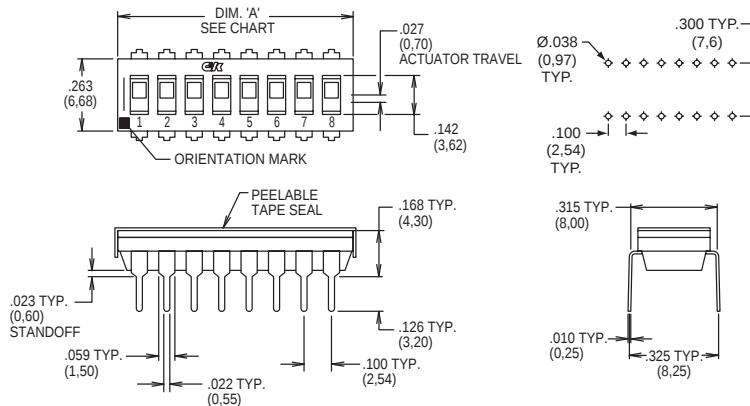
TERMINAL SEAL: All terminals insert molded.

TAPE SEAL: Polyester

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

## Sealed Flush Actuator - With Top Tape, Thru-hole Terminals

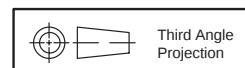
Process sealed - withstands soldering and cleaning processes



| PART NUMBER    | NO.POS. | DIM. 'A'      | QUANTITY PER TUBE |
|----------------|---------|---------------|-------------------|
| <b>SD02H0K</b> | 2       | .258 (6,55)   | 85                |
| <b>SD03H0K</b> | 3       | .358 (9,09)   | 60                |
| <b>SD04H0K</b> | 4       | .458 (11,63)  | 45                |
| <b>SD05H0K</b> | 5       | .558 (14,17)  | 40                |
| <b>SD06H0K</b> | 6       | .658 (16,71)  | 30                |
| <b>SD07H0K</b> | 7       | .758 (19,25)  | 25                |
| <b>SD08H0K</b> | 8       | .858 (21,79)  | 25                |
| <b>SD09H0K</b> | 9       | .958 (24,33)  | 20                |
| <b>SD10H0K</b> | 10      | 1.058 (26,87) | 20                |
| <b>SD12H0K</b> | 12      | 1.258 (31,95) | 15                |

|           |  |  |  |
|-----------|--|--|--|
| Schematic |  |  |  |
|           |  |  |  |
| SPST      |  |  |  |



Dimensions are shown inch (mm)  
Dimensions subject to change

# C&K SD Series Low Profile DIP Switches

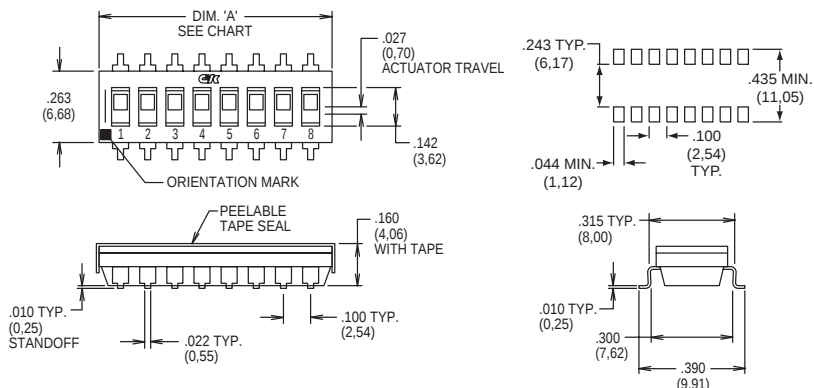
DIP I

## Sealed Flush Actuator – With Top Tape, Surface Mount Terminals

| PART NUMBER | NO.POS. | DIM. 'A'      | QUANTITY PER TUBE |
|-------------|---------|---------------|-------------------|
| SD02H0SK    | 2       | .258 (6,55)   | 85                |
| SD03H0SK    | 3       | .358 (9,09)   | 60                |
| SD04H0SK    | 4       | .458 (11,63)  | 45                |
| SD05H0SK    | 5       | .558 (14,17)  | 40                |
| SD06H0SK    | 6       | .658 (16,71)  | 30                |
| SD07H0SK    | 7       | .758 (19,25)  | 25                |
| SD08H0SK    | 8       | .858 (21,79)  | 25                |
| SD09H0SK    | 9       | .958 (24,33)  | 20                |
| SD10H0SK    | 10      | 1.058 (26,87) | 20                |
| SD12H0SK    | 12      | 1.258 (31,95) | 15                |

Schematic

SPST

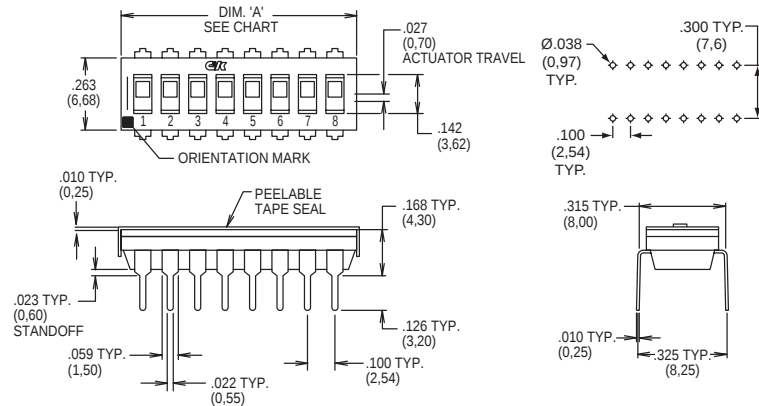


## Sealed Extended Actuator – With Top Tape, Thru-hole Terminals

| PART NUMBER | NO.POS. | DIM. 'A'      | QUANTITY PER TUBE |
|-------------|---------|---------------|-------------------|
| SD02H1K     | 2       | .258 (6,55)   | 85                |
| SD03H1K     | 3       | .358 (9,09)   | 60                |
| SD04H1K     | 4       | .458 (11,63)  | 45                |
| SD05H1K     | 5       | .558 (14,17)  | 40                |
| SD06H1K     | 6       | .658 (16,71)  | 30                |
| SD07H1K     | 7       | .758 (19,25)  | 25                |
| SD08H1K     | 8       | .858 (21,79)  | 25                |
| SD09H1K     | 9       | .958 (24,33)  | 20                |
| SD10H1K     | 10      | 1.058 (26,87) | 20                |
| SD12H1K     | 12      | 1.258 (31,95) | 15                |

Schematic

SPST

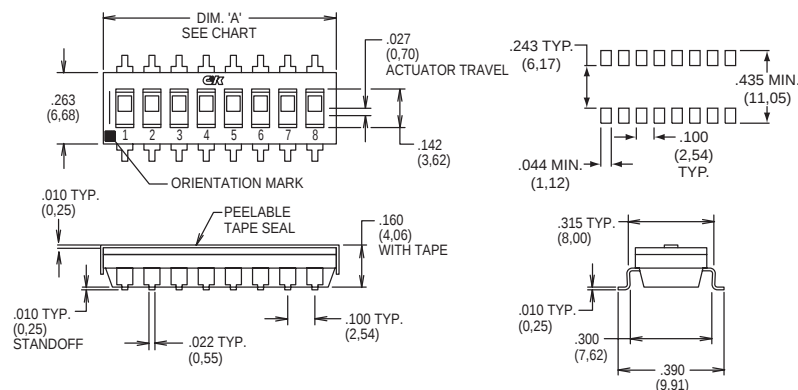


## Sealed Extended Actuator – With Top Tape, Surface Mount Terminals

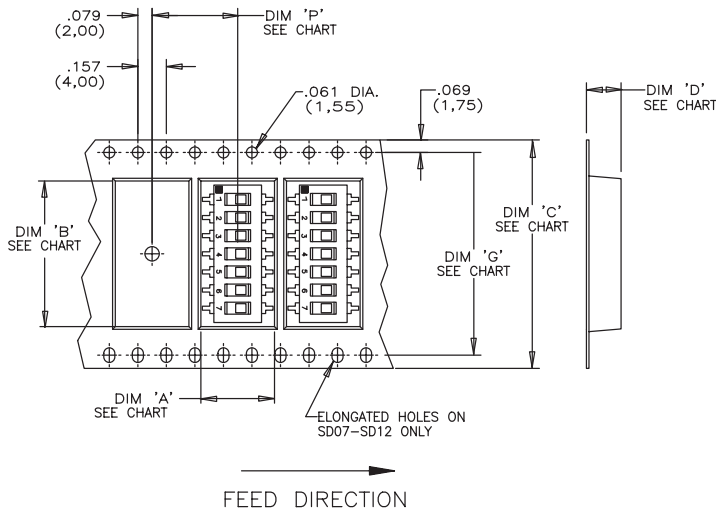
| PART NUMBER | NO.POS. | DIM. 'A'      | QUANTITY PER TUBE |
|-------------|---------|---------------|-------------------|
| SD02H1SK    | 2       | .258 (6,55)   | 85                |
| SD03H1SK    | 3       | .358 (9,09)   | 60                |
| SD04H1SK    | 4       | .458 (11,63)  | 45                |
| SD05H1SK    | 5       | .558 (14,17)  | 40                |
| SD06H1SK    | 6       | .658 (16,71)  | 30                |
| SD07H1SK    | 7       | .758 (19,25)  | 25                |
| SD08H1SK    | 8       | .858 (21,79)  | 25                |
| SD09H1SK    | 9       | .958 (24,33)  | 20                |
| SD10H1SK    | 10      | 1.058 (26,87) | 20                |
| SD12H1SK    | 12      | 1.258 (31,95) | 15                |

Schematic

SPST



## TAPE & REEL PACKAGING - SURFACE MOUNT OPTIONS ONLY

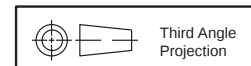


| PART NUMBER | DIM. 'W'    | QUANTITY PER REEL |
|-------------|-------------|-------------------|
| SD02H0SKR   | .630 (16,0) | 1000              |
| SD03H0SKR   | .630 (16,0) | 1000              |
| SD04H0SKR   | .945 (24,0) | 1000              |
| SD05H0SKR   | .945 (24,0) | 1000              |
| SD06H0SKR   | 1.26 (32,0) | 1000              |
| SD07H0SKR   | 1.26 (32,0) | 1000              |
| SD08H0SKR   | 1.73 (44,0) | 1000              |
| SD09H0SKR   | 1.73 (44,0) | 1000              |
| SD10H0SKR   | 1.73 (44,0) | 1000              |
| SD12H0SKR   | 1.73 (44,0) | 1000              |

| SWITCH NO. | DIM 'A' POCKET LENGTH @ BOTTOM | DIM 'B' POCKET LENGTH @ BOTTOM | DIM 'C' TAPE WIDTH | DIM 'D' POCKET DEPTH | DIM 'G' SPROCKET HOLE SPACING | DIM 'P' PITCH BETWEEN POCKETS |
|------------|--------------------------------|--------------------------------|--------------------|----------------------|-------------------------------|-------------------------------|
| SD02       | .413(10.5)                     | .315(8.0)                      | .630(16,0)         | .177(4.5)            | N/A                           | .472(12,0)                    |
| SD03       | .406(10.3)                     | .406(10.3)                     | .630(16,0)         | .193(4.9)            | N/A                           | .472(12,0)                    |
| SD04       | .429(10.9)                     | .476(12.1)                     | .954(24,0)         | .177(4.5)            | N/A                           | .472(12,0)                    |
| SD05       | .406(10.3)                     | .602(15.3)                     | .954(24,0)         | .177(4.5)            | N/A                           | .472(12,0)                    |
| SD06       | .406(10.3)                     | .701(17.8)                     | .954(24,0)         | .177(4.5)            | N/A                           | .472(12,0)                    |
| SD07       | .406(10.3)                     | .803(20.4)                     | 1.260(32,0)        | .177(4.5)            | 1.118(28.4)                   | .472(12,0)                    |
| SD08       | .406(10.3)                     | .854(21.7)                     | 1.732(44,0)        | .177(4.5)            | 1.591(40.4)                   | .472(12,0)                    |
| SD09       | .406(10.3)                     | 1.028(26.1)                    | 1.732(44,0)        | .177(4.5)            | 1.591(40.4)                   | .472(12,0)                    |
| SD10       | .406(10.3)                     | 1.055(26.8)                    | 1.732(44,0)        | .177(4.5)            | 1.591(40.4)                   | .472(12,0)                    |
| SD12       | .406(10.3)                     | 1.303(33.1)                    | 1.732(44,0)        | .177(4.5)            | 1.591(40.4)                   | .472(12,0)                    |

### Reel Information

Outside diameter 13.00 (333,0)  
Pilot hole .512 (13,0)



Dimensions are shown inch (mm)  
Dimensions subject to change

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)