

K5V

Illuminated Tact Switch



Features

- Gold plated dome contact SPST/SPDT
- Excellent ergonomics
- High bright leds
- Reduced space usage on board
- 40 N overload
- Tape and reel
- RoHS compliant and compatible

Typical Applications

- When backlighting and switch are required to be a "2 in 1" component
- The dome contact secures a superior contact reliability in time
- The ergonomics of K5V provides a long travel, a sharp tactile feel and an audible click
- Server, storage, automotive, network infrastructure, medical

Specification

FUNCTION: momentary action

CONTACT ARRANGEMENT: Normally Open + Normally Closed

TERMINALS:

THT: Through hole terminals with positioning pegs

SMT: Surface mount terminals with positioning pegs

PM: Panel mount solder terminals with wire hole

Electrical

POWER MIN/MAX: 0.02VA / 1.0VA

VOLTAGE MIN/MAX: 20mVdc – 32 Vdc

CURRENT MIN/MAX: 0.1mA – 100mA

CONTACT RESISTANCE: <150m Ω

INSULATION RESISTANCE: >1G Ω initial, >10M Ω after damp heat

BOUNCE TIME: <5ms

Environmental

OPERATING TEMPERATURE: -40°C to 85°C

STORAGE TEMPERATURE: -50°C to 85°C

RELATIVE HUMIDITY: 90 to 96% according to NF EN 60068-2-30

PROTECTION: dust protection and flux tight

OVERLOAD: 40N min

Mechanical

Version	Operating force FA ¹ Newtons (grams)	Operating life (operations)	Travel (total travel) mm(mm)
THT, SMT, PM	4.0 (400)	25,000	1.2 (2.4)

¹ Tolerances of operating force FA is ± 25%.

Packaging

THT:

60 pieces per tray; 1800 pieces per box

SMT:

330 pieces per reel (reel ø 360mm); 1320 pieces per box

PM:

60 pieces per tray; 2100 pieces per box

Process

SMT

Soldering: Compatible with the lead free soldering profile
No washing

THT

Soldering: Compatible with the lead free soldering profile
No washing

PM

Soldering: Low wattage soldering iron (25-50 watts max).
Solder time 3 seconds max. No washing

Materials

LEAD FREE

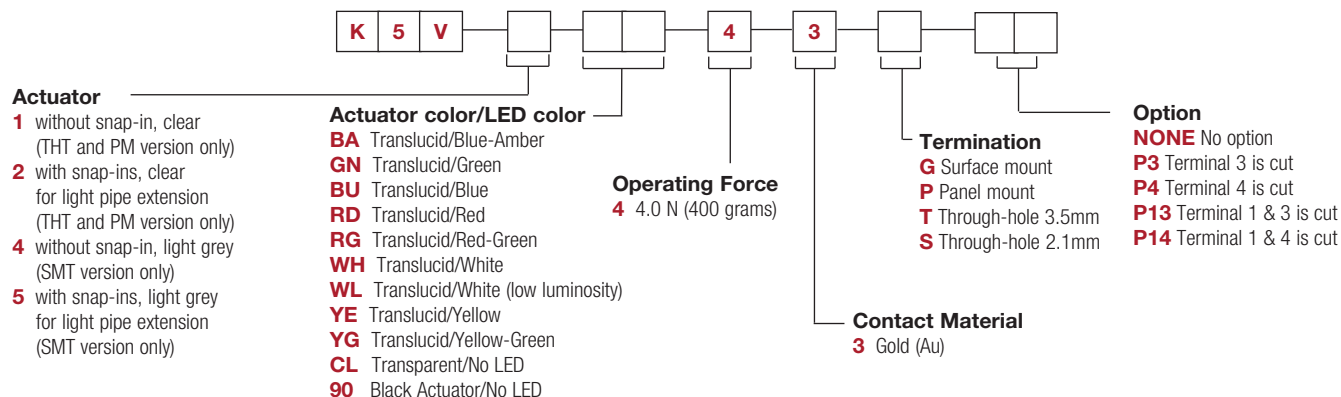
CONTACTS: Au over Ni

SOLDERING: Au over Ni

HOUSING: Thermoplastic UL94 V0

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and and place it in the appropriate box.

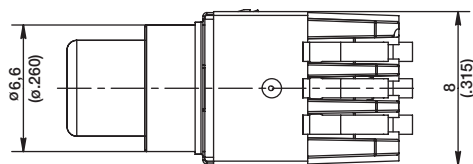
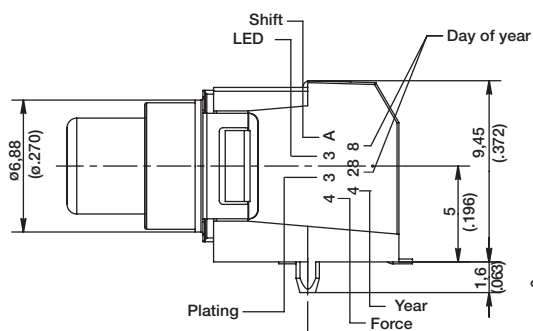


Tactile Switches

Technical drawing of a mechanical assembly (Fig. 10.10) showing a cross-section of a shaft with a key and a pulley. The drawing includes dimensions for the shaft diameter ($\varnothing 5$), key width ($2 \times \varnothing 1.2$), and various axial and radial dimensions in millimeters and inches.

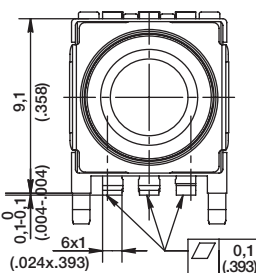
Dimensions (mm / inches):

- Shaft diameter: $\varnothing 5$ / (.197)
- Key width: $2 \times \varnothing 1.2$ / (.079 x .047)
- Top flange thickness: 1.5 / (.059)
- Top flange radius: 3.9 / (.154)
- Top flange outer diameter: 1.5 / (.059)
- Key height: 0.4 / (.016)
- Key length: 5.4 / (.213)
- Keyway depth: 0.4 / (.016)
- Keyway width: 8.4 / (.331)
- Keyway radius: 4.7 / (.185)
- Keyway depth (bottom): 1.9 / (.075)
- Keyway width (bottom): 1.9 / (.075)
- Keyway radius (bottom): 1.9 / (.075)
- Keyway depth (total): 1.9 / (.075)
- Keyway width (total): 1.9 / (.075)
- Keyway radius (total): 1.9 / (.075)
- Keyway depth (total): 1.9 / (.075)
- Keyway width (total): 1.9 / (.075)
- Keyway radius (total): 1.9 / (.075)



The diagrams show the following connections:

- Single Color LED:** Terminal 1 connects to the anode (triangle symbol) of the LED. Terminal 2 connects to the cathode (line symbol) of the LED. Terminal 4 connects to the common ground. Terminal A connects to the anode, and terminal C connects to the cathode.
- Bi-Color LED - YG:** Terminal 1 connects to the anode of the yellow LED. Terminal 2 connects to the cathode of the yellow LED. Terminal 3 connects to the anode of the green LED. Terminal 4 connects to the cathode of the green LED. Terminal AG/CY connects to the anode of the green LED, and terminal CG/AY connects to the cathode of the green LED.
- Bi-Color LED - RG:** Terminal 1 connects to the anode of the red LED. Terminal 2 connects to the cathode of the red LED. Terminal 3 connects to the anode of the green LED. Terminal 4 connects to the cathode of the green LED. Terminal AG/CR connects to the anode of the green LED, and terminal CG/AR connects to the cathode of the green LED.



TOP VIEW

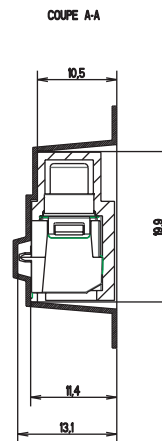
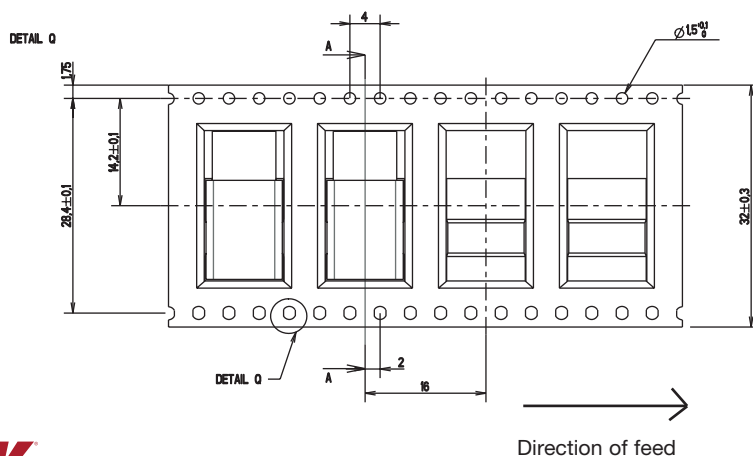
Areas important for switch stability on PCB

Dimensions (mm) and (inches):

- Top horizontal dimensions: 1.2 (.047), 5.8 (.228), 1.2 (.047)
- Top horizontal dimensions for internal features: 1.9 (.075), 1.9 (.075)
- Left vertical dimensions: 2 (.079), 3.5 (.138), 2 (.079)
- Right vertical dimensions: 4.05 (.159), 0.85 (.033), 4.2 (.165), 0.85 (.033)
- Bottom horizontal dimensions: 1.4 (.055), 7 (.276)
- Bottom circular feature: $\varnothing 1.35 \pm 0.05$ ($\varnothing .053 \pm .002$)

Internal features are labeled 1, 2, 3, 4, A, and C.

Technical drawing of a mechanical part. The left side shows a cross-section of a circular feature with a diameter of $\varnothing 175$ and a width of 155. The right side shows a side view of the part, which consists of a series of rectangular features with a width of 104.



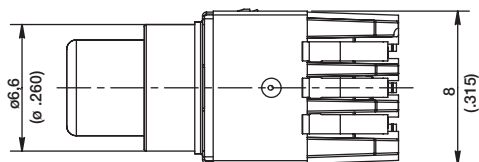
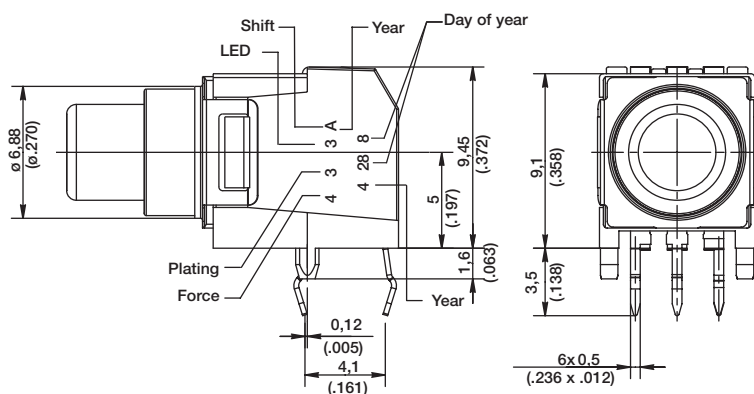
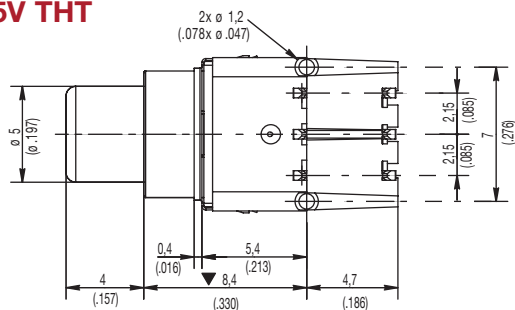
First Angle Projection

C&K

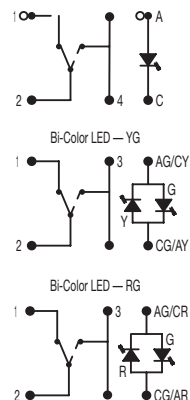
K5V

Illuminated Tact Switch

K5V THT

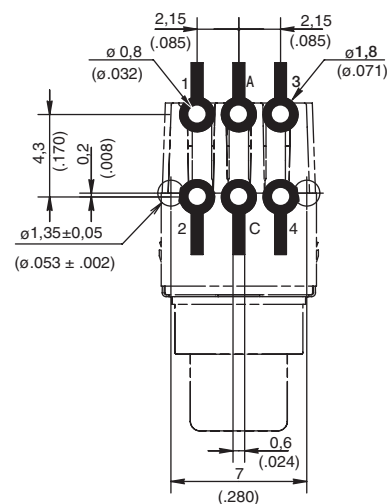


ELECTRICAL DIAGRAM

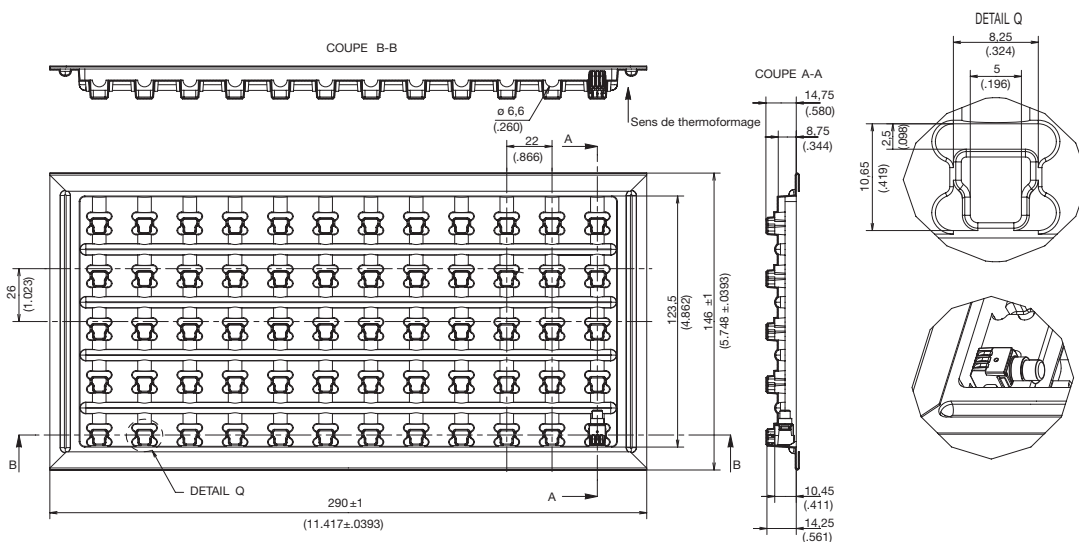


RECOMMENDED PCB LAYOUT (WITH HOLES)

TOP VIEW



TRAY

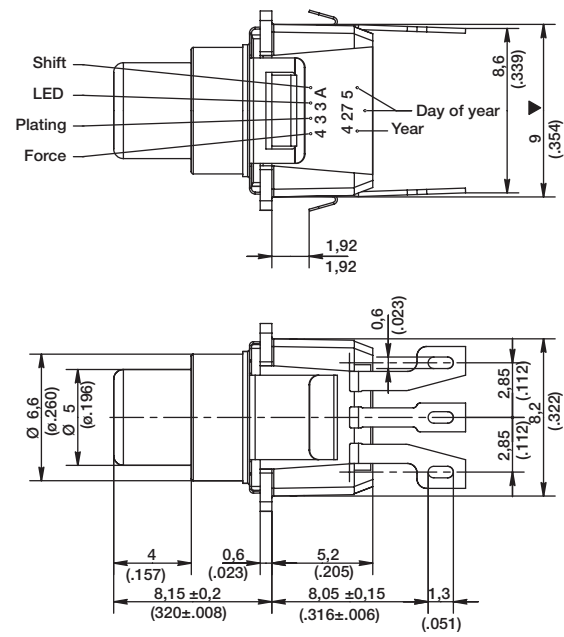


K5V Illuminated Tact Switch

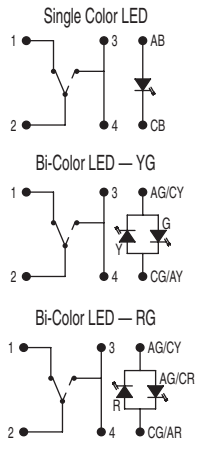
Tactile Switches

K5V PM

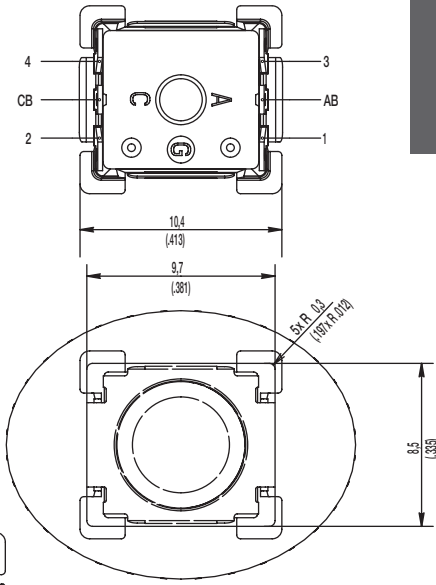
PRODUCT IDENTIFICATION AND DATE CODES



ELECTRICAL DIAGRAM

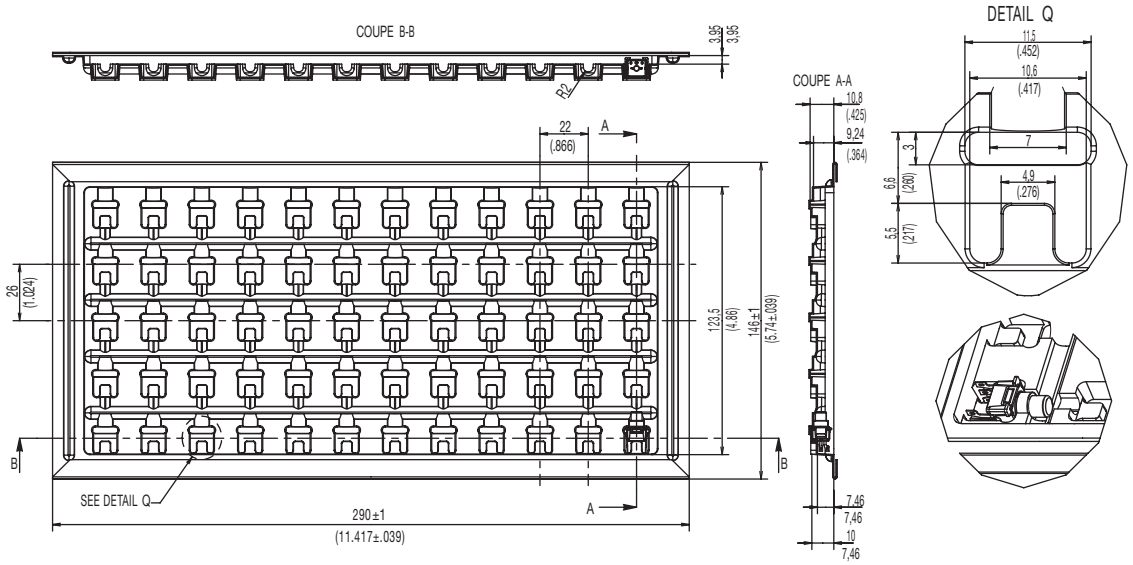


TERMINAL REFERENCES



TRAY

SUITABLE FOR PANEL THICKNESS OF 1.8MM MAX



Dimensions are shown: mm
Specifications and 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.



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