

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

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 $\pm 25\%$.

Packaging

THT:

60 pieces per tray; 1800 pieces per box

SMT:

330 pieces per reel (reel $\varnothing$ 360mm); 1320 pieces per box

PM:

60 pieces per tray; 2100 pieces per box

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

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

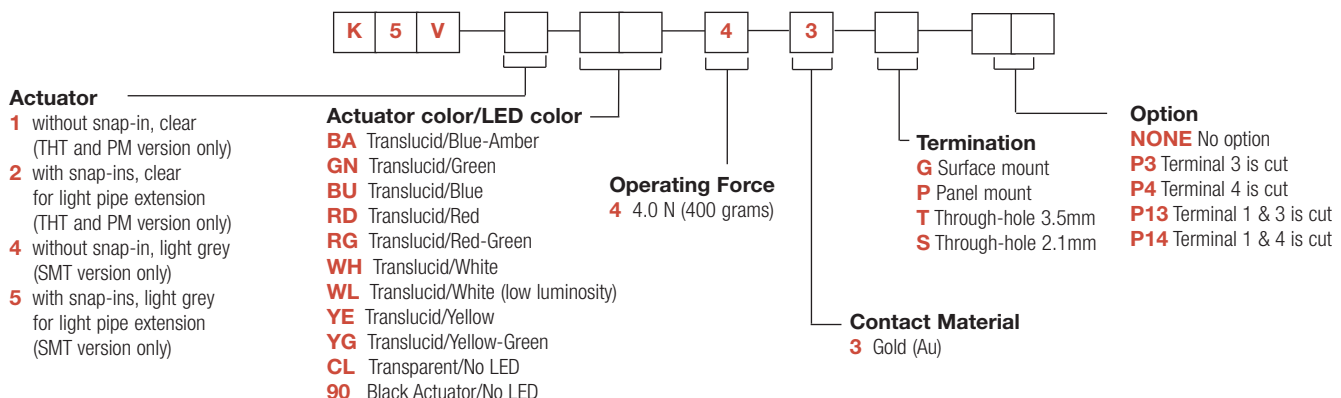
CONTACTS: Au over Ni

SOLDERING: Au over Ni

HOUSING: Thermoplastic UL94 V0

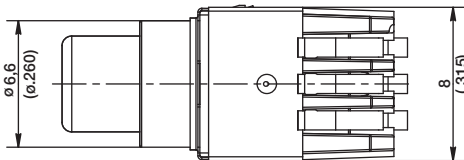
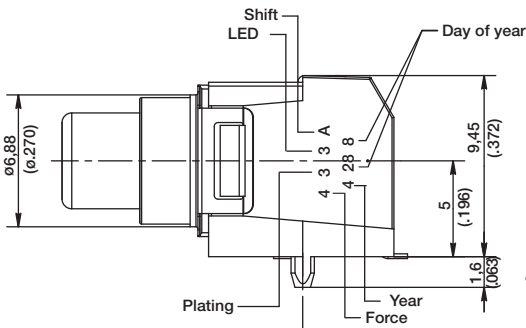
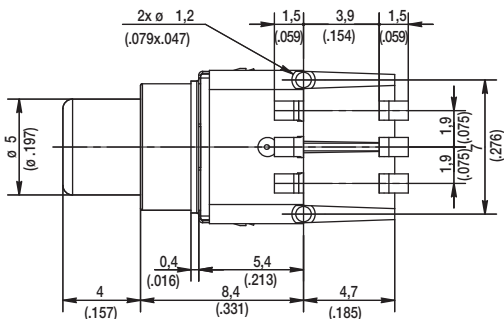
How To Order

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.

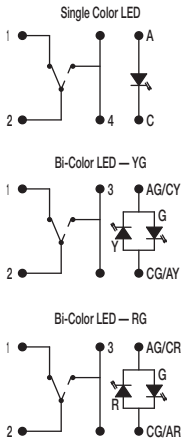


K5V Illuminated Tact Switch

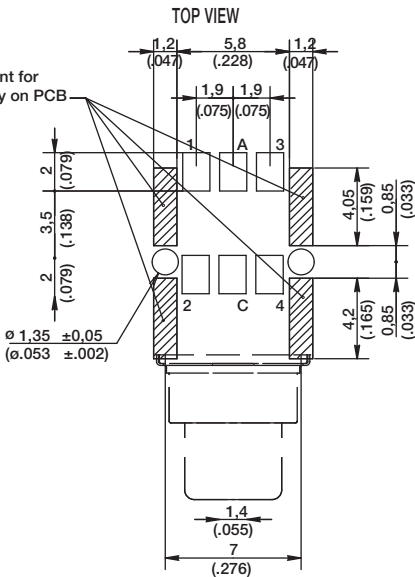
K5V SMT



ELECTRICAL DIAGRAM



RECOMMENDED PCB LAYOUT (WITH HOLES)

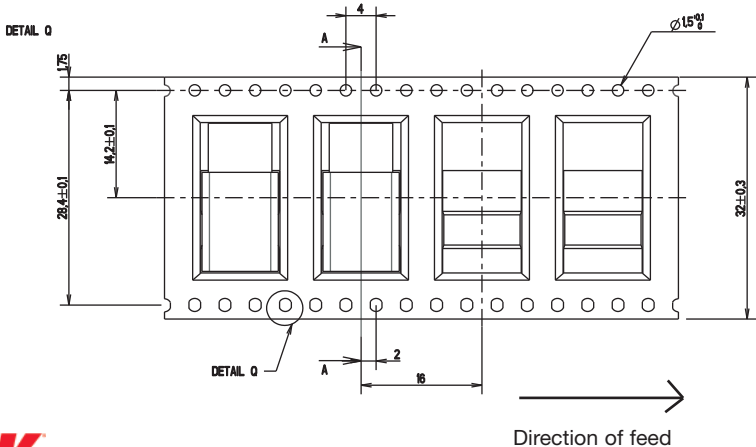
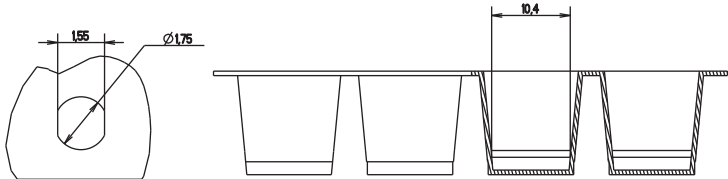


Areas important for switch stability on PCB

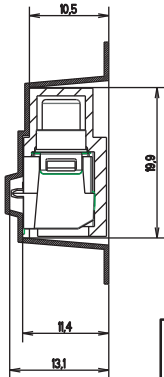
B

Tactile Switches

TAPE & REEL



COUPE A-A

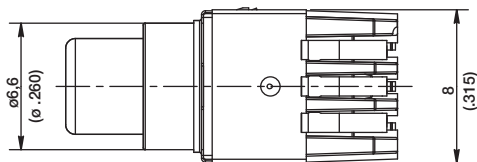
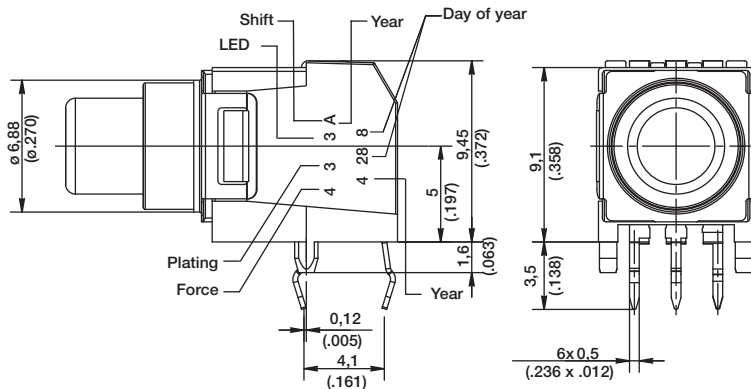
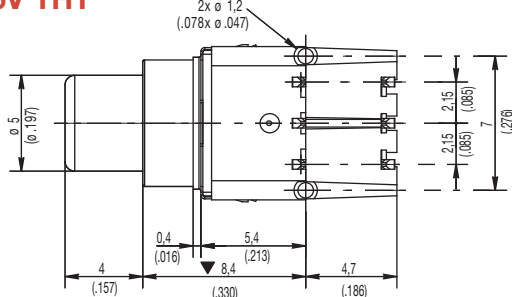


Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

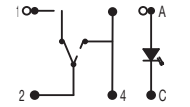


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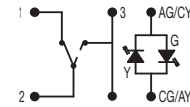
K5V THT



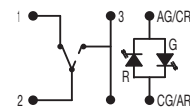
ELECTRICAL DIAGRAM



Bi-Color LED — YG

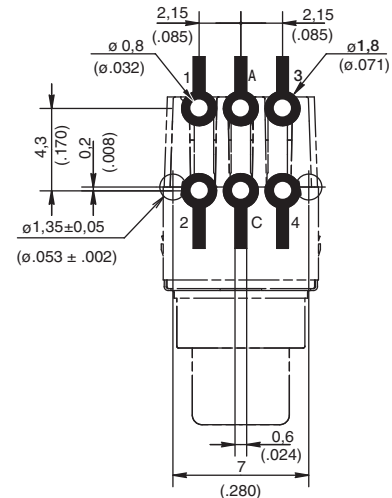


Bi-Color LED — RG



RECOMMENDED PCB LAYOUT (WITH HOLES)

TOP VIEW



TRAY

