

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

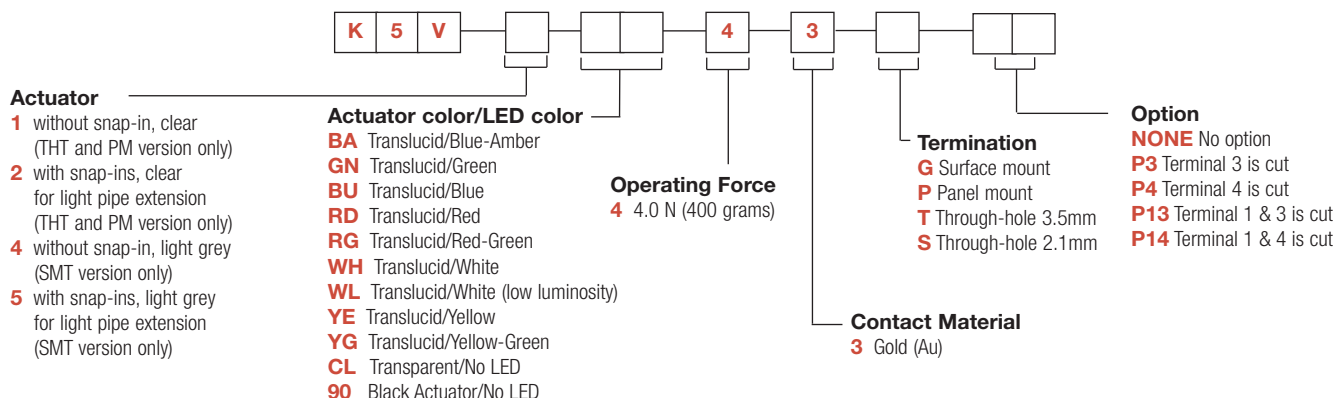
CONTACTS: Au over Ni

SOLDERING: Au over Ni

HOUSING: Thermoplastic UL94 V0

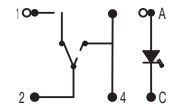
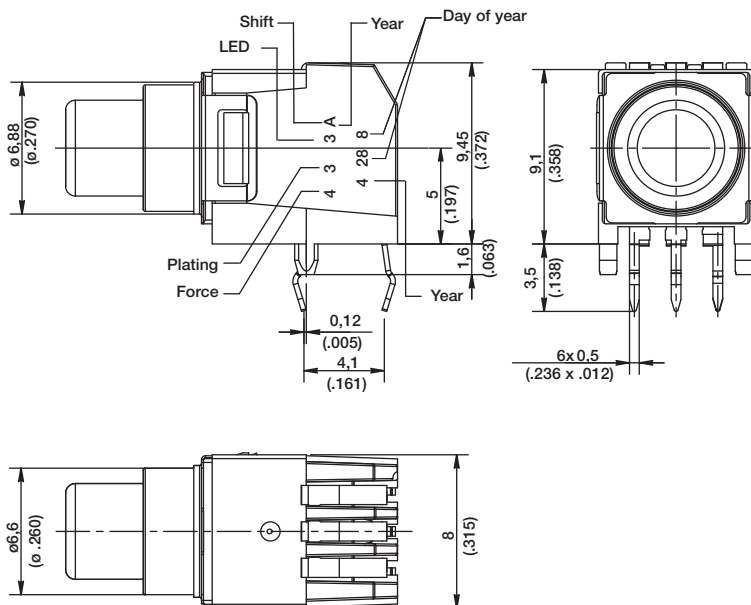
How To Order

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.



Tactile Switches

Technical drawing of a 1/2" NPT x 1/2" NPT female-to-male adapter. The drawing shows a side view of the adapter with various dimensions. Key dimensions include: overall length 4.7 (186), overall diameter 2.15 (86.5), and thread specifications 2x ø 1.2 (0.078x ø .047). The drawing also shows a cross-section of the adapter with a 0.5 (0.197) diameter hole and a 0.4 (0.16) diameter hole.



Technical drawing of a mechanical part with dimensions in inches and parentheses for millimeters:

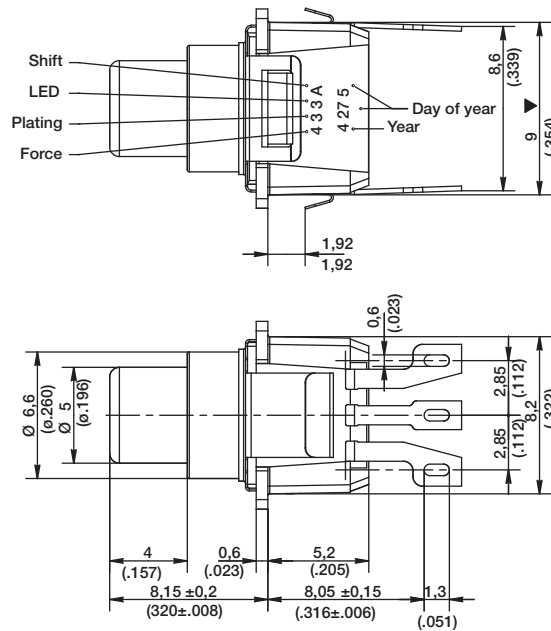
- Overall width: 2.15 (0.085)
- Overall height: 4.3 (.170)
- Top hole diameter: $\phi 0.8$ ($\phi .032$)
- Bottom hole diameter: $\phi 1.35 \pm 0.05$ ($\phi .053 \pm .002$)
- Distance between top holes: 2.15 (0.085)
- Distance between bottom holes: 0.6 (.024)
- Distance between top and bottom holes: 0.2 (.008)
- Overall width at bottom: 7 (.280)
- Labels: 1, 2, 3, 4, A, B, C

[illegible]

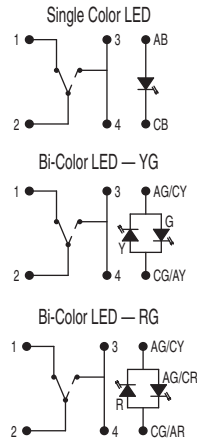
K5V
Illuminated Tact Switch

K5V PM

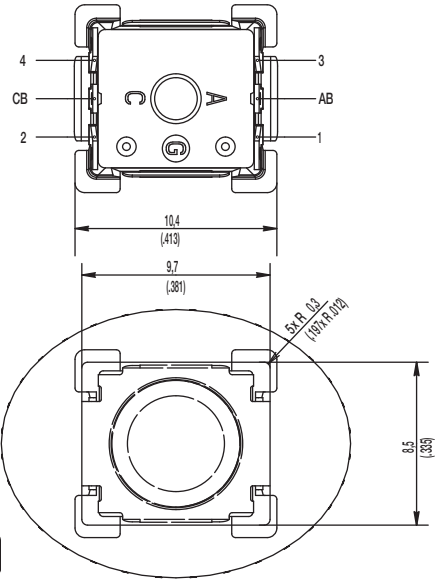
PRODUCT IDENTIFICATION AND DATE CODES



ELECTRICAL DIAGRAM

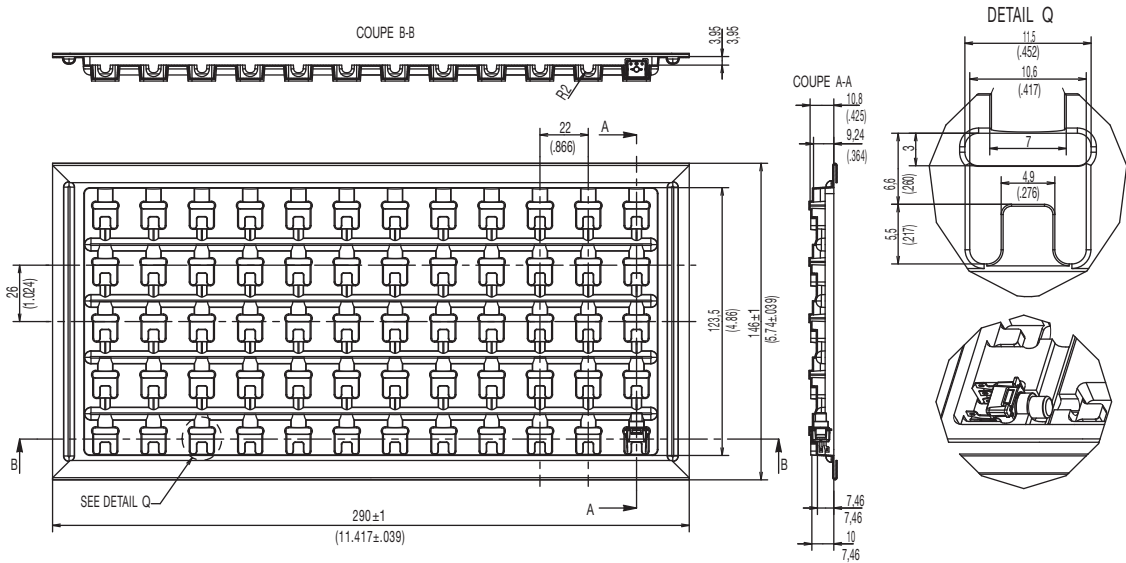


TERMINAL REFERENCES



TRAY

SUITABLE FOR PANEL THICKNESS OF 1.8MM MAX



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