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 ± 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

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.

K 5 V [ ] [ ][ ] 4 3 [ ] [ ][ ]

Actuator
1 without snap-in, clear (THT and PM version only)
2 with snap-ins, clear for light pipe extension (THT and PM version only)
4 without snap-in, light grey (SMT version only)
5 with snap-ins, light grey for light pipe extension (SMT version only)

Actuator color/LED color
BA Translucid/Blue-Amber
GN Translucid/Green
BU Translucid/Blue
RD Translucid/Red
RG Translucid/Red-Green
WH Translucid/White
WL Translucid/White (low luminosity)
YE Translucid/Yellow
YG Translucid/Yellow-Green
CL Transparent/No LED
90 Black Actuator/No LED

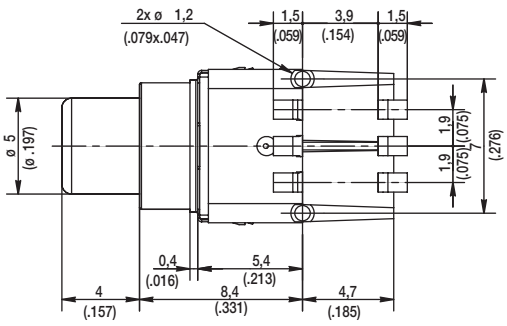
Operating Force
4 4.0 N (400 grams)

Contact Material
3 Gold (Au)

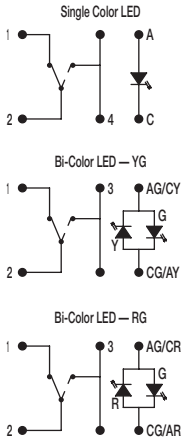
Termination
G Surface mount
P Panel mount
T Through-hole 3.5mm
S Through-hole 2.1mm

Option
NONE No option
P3 Terminal 3 is cut
P4 Terminal 4 is cut
P13 Terminal 1 & 3 is cut
P14 Terminal 1 & 4 is cut

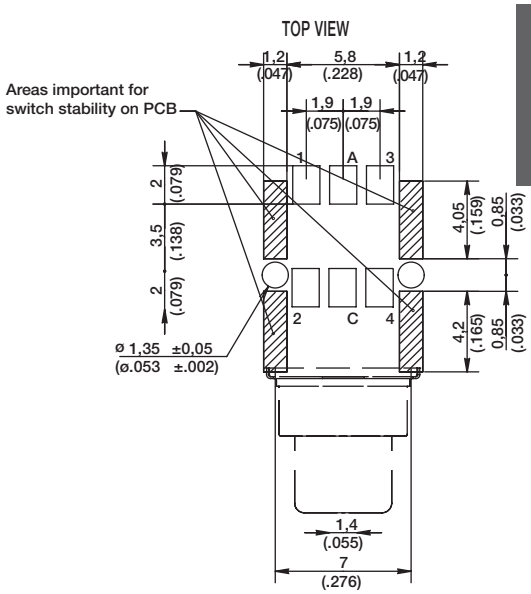
K5V SMT

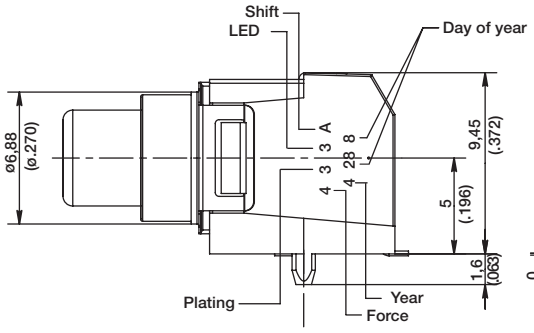


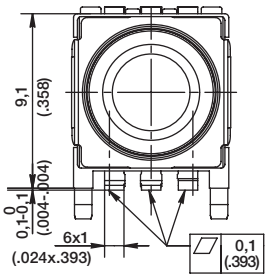
ELECTRICAL DIAGRAM

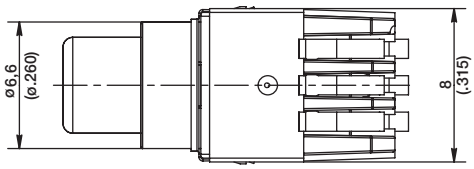


RECOMMENDED PCB LAYOUT (WITH HOLES)

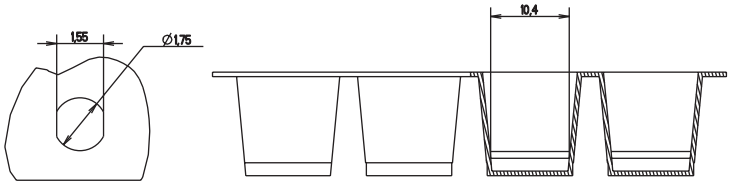


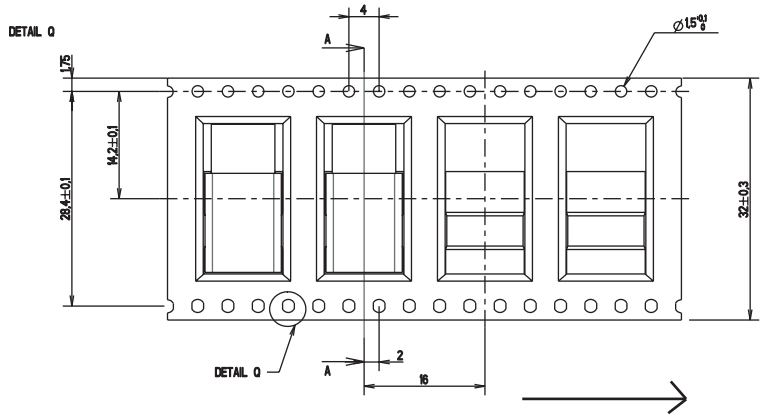


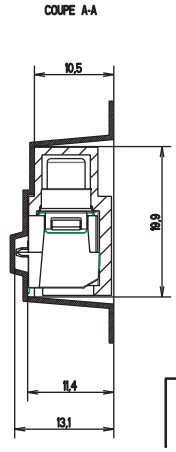




TAPE & REEL







Direction of feed

First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change

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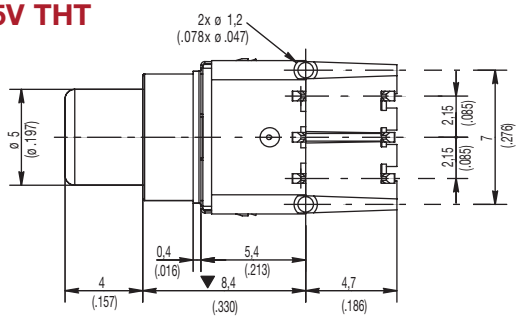
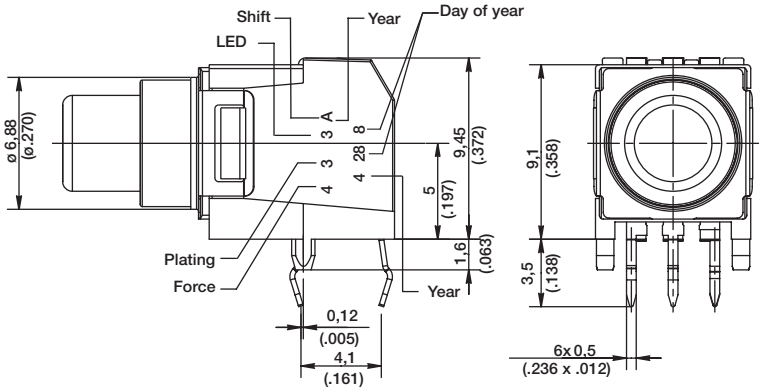
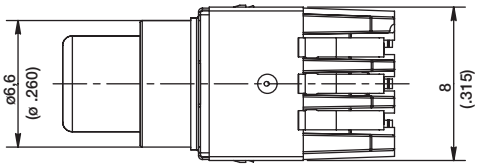
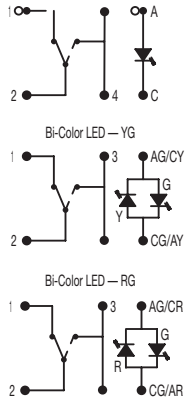
K5V THT





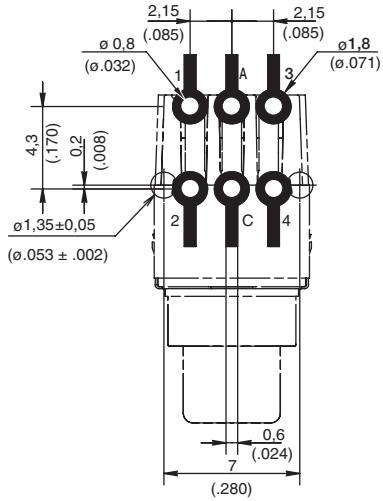


ELECTRICAL DIAGRAM

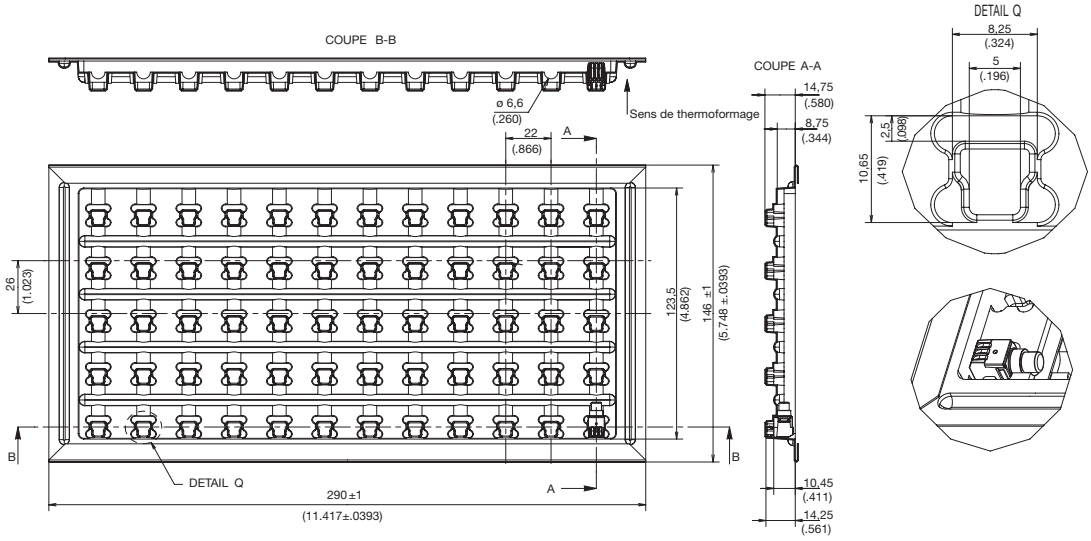


RECOMMENDED PCB LAYOUT (WITH HOLES)

TOP VIEW



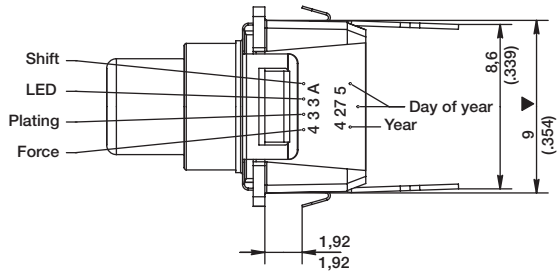
TRAY

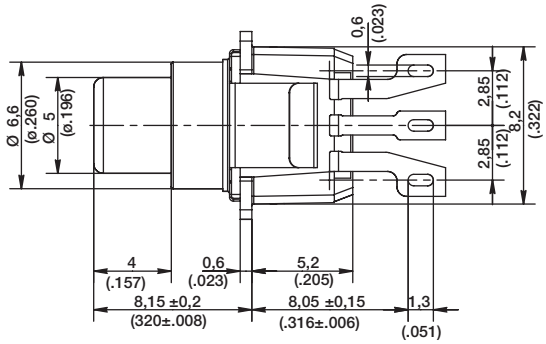


Dimensions are shown: mm
Specifications and dimensions subject to change

K5V PM

PRODUCT IDENTIFICATION AND DATE CODES





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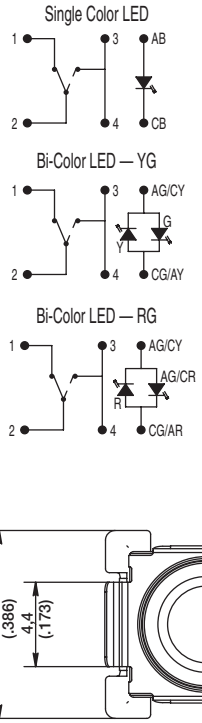
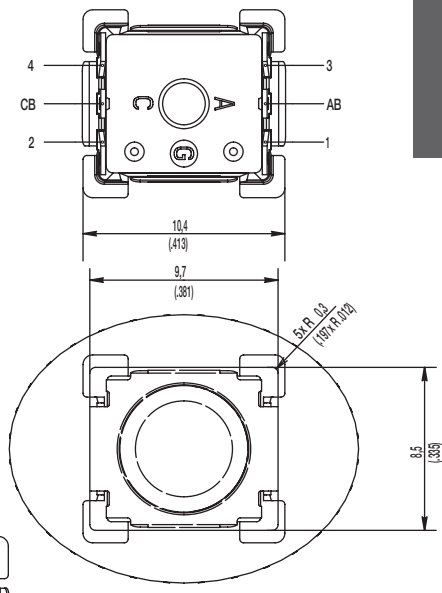
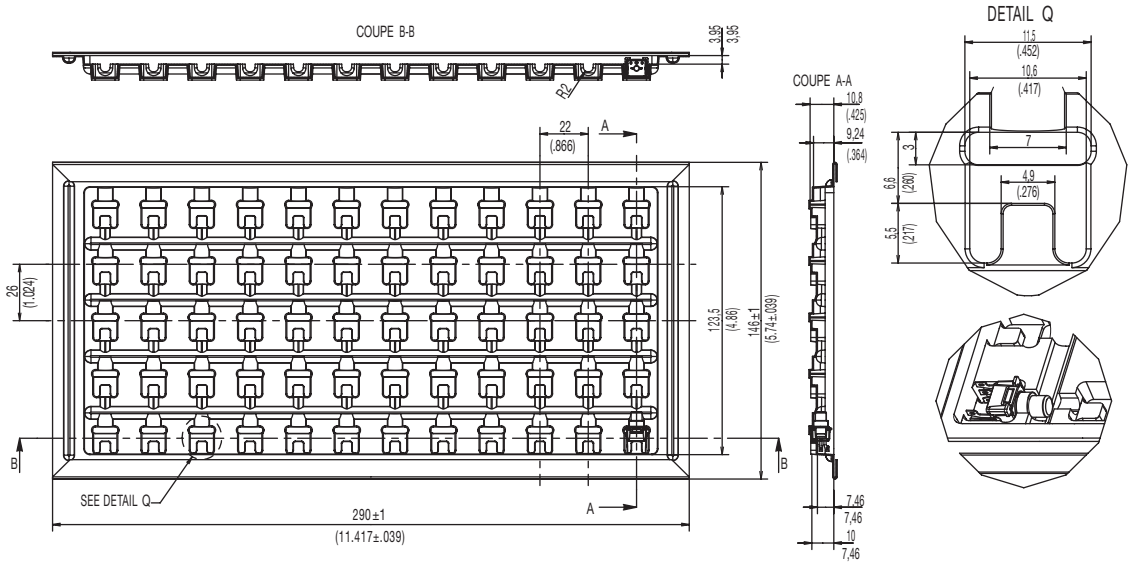


TERMINAL REFERENCES



TRAY

SUITABLE FOR PANEL THICKNESS OF 1.8MM MAX



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ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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