

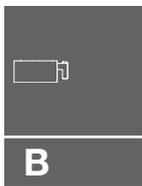
Lighted SMT Tact Switch with Rugged LED Mounting Process

Features

- LED assembly without soldering
- Various LED options
- No light perturbation
- Sound haptic
- Various climatic classes

Typical Applications

- Automotive
- Network equipment
- Telecommunications
- Medical equipment
- Industrial controls



Tactile Switches

Specification

FUNCTION: momentary action
 CONTACT ARRANGEMENT: 1 make control = SPST, N.O.
 TERMINALS: Gullwing type for SMT, peg as option, 2 terminals for LED

Mechanical

| Type | Actuation Force (N) | Operating Life (operations) | Total Travel (mm) |
|-------------|---------------------|-----------------------------|-------------------|
| TPxx41G LFS | 4.0 | 300,000 | 0.45±0.15 |

Tolerances on actuation force is ± 0.25%.
 SEALING LEVEL: IP40

Illumination Colors

White, blue, pure green, orange, super red
 LED technical information available on product specification.
 For any extra color, please contact your sales representative.

Packaging

In reels of 900 pieces under sealed foil.
 Dimensions of reels according to EIA RS481 or IEC 2863.
 External diameter 380 mm.

Electrical

| | Silver | Gold |
|---|---------------------|--------|
| MAXIMUM POWER: | 1.0 VA | 0.2 VA |
| MAXIMUM VOLTAGE: | 32 VDC | 32 VDC |
| MINIMUM VOLTAGE: | 20 mV | 20 mV |
| MAXIMUM CURRENT: | 50 mA | 10 mA |
| MINIMUM CURRENT: | 1 mA | 0.1 mA |
| DIELECTRIC STRENGTH: (50 Hz, 1 min.) | ≥ 250 Vrms | |
| CONTACT RESISTANCE: | < 100mΩ | |
| INSULATION RESISTANCE: (100 V, initial stage) | > 10 ⁹ Ω | |
| BOUNCE TIME: | < 10 ms | |

Environmental

OPERATING TEMPERATURE: -40°C to +85°C (Silver)
 -40°C to +125°C (Gold)
 STORAGE TEMPERATURE: -55°C to +85°C (Silver)
 -40°C to +125°C (Gold)

Process

SOLDERING: Compatible with the lead free soldering profile.
 No washing
 MSL level: 5

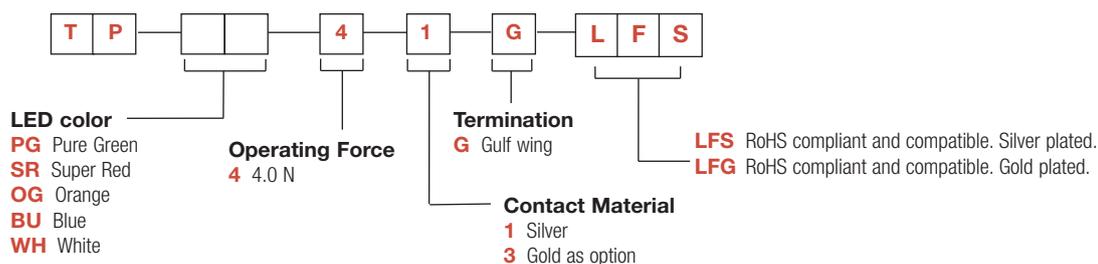
NOTE:

The specifications show in the datasheet are for reference only and are not valid for design-in work. Please contact your sales representative to request drawings and product specifications.

For systems where reliability and safety are required, please contact your sales representative to secure product integration and function to secure usage.

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 place it in the appropriate box.

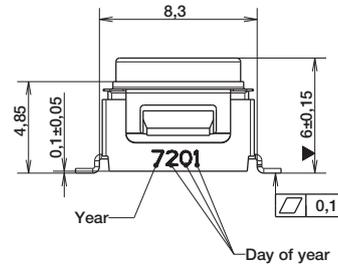
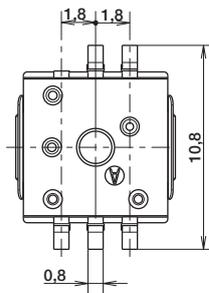
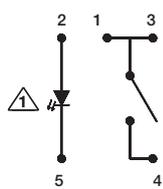


Dimensions are shown: mm
 Specifications and dimensions subject to change

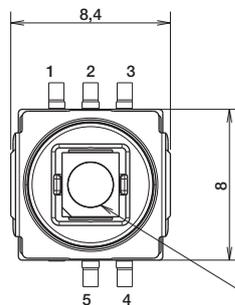
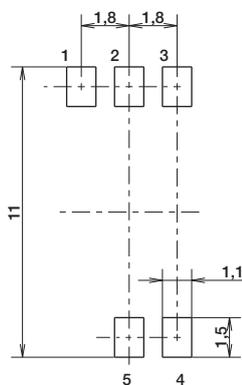
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| PART NUMBER | REF LED | EMITTED COLOR | LUMINOUS INTENSITY (mcd) If = 20 mA | | CHROMATICITY COORDINATES OR PEAK WAVE LENGTH (typ) If = 20 mA | | FORWARD VOLTAGE V If = 20 MA | |
|-------------|-------------------|---------------|-------------------------------------|-----|---|------|------------------------------|------|
| | | | min | typ | X | Y | min | max |
| TPWH41G | LW T67C-S2U1-5K8L | WHITE | 224 | 560 | 0,33 | 0,33 | 3 | 4.1 |
| TPBU41G | LB T67C-P2R1-35 | BLUE | 56 | 140 | 465 nm | | 3 | 4.1 |
| TPPG41G | LP T676-L1M2-25 | PURE GREEN | 11.2 | 28 | 562 nm | | 1.8 | 2.4 |
| TPSR41G | LP T676-Q1R2-1 | SUPER RED | 71 | 180 | 645 nm | | 1.8 | 2.3 |
| TPOG41G | LO T676-R1S2-24 | ORANGE | 112 | 280 | 610 nm | | 1.85 | 2.35 |

ELECTRICAL GRAPH



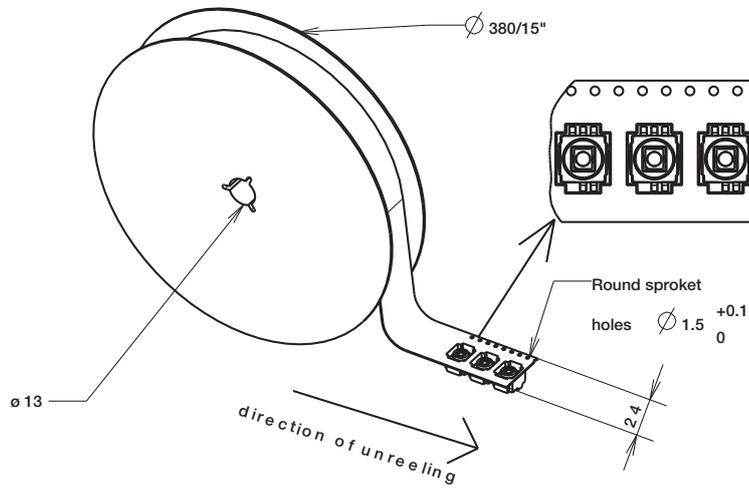
PCB LAYOUT TOP VIEW



pick and place area :
top of LED $\varnothing 2.5$ max

TP Lighted SMT Tact Switch with Rugged LED Mounting Process

TAPE & REEL



B

Tactile Switches