



# DATA SHEET

## THT Panel Tact Switch 12x12mm H=23mm

### Serie: Q32061

**THT Panel Tact Switch  
12x12mm H=23mm**

Serie No.: **Q32061**

Customer:

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 16.04.2025 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 1 from 9 |            |

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## Switch Specifications

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| POLE - POSITION             | OFF - <ON> for Momentary Type , SPST                  |
| CONTACT RATING              | 100 mA 12V DC                                         |
| CONTACT RESISTANCE          | 200 mΩ MAX.                                           |
| INSULATION RESISTANCE       | 100 MΩ MIN. 500 V DC                                  |
| DIELECTRIC STRENGTH         | Breakdown is not Allowable ;<br>500 V AC for 1 Minute |
| OPERATING FORCE             | 250 ± 100 gf (TP:4.5mm)<br>160 ± 80 gf (TP:3.5mm)     |
| OPERATING LIFE              | 1,000,000 cycles                                      |
| OPERATING TEMPERATURE RANGE | -20°C ~ 70°C                                          |
| TOTAL TRAVEL                | 4.5 ± 0.2 mm / 3.5 ± 0.2 mm                           |

## LED Specifications

|                         |    | Unit | Value / LED Color |            |           |
|-------------------------|----|------|-------------------|------------|-----------|
|                         |    |      | Ultra Blue        | Pure Green | Ultra Red |
| FORWARD CURRENT         | If | mA   | 20                | 20         | 20        |
| REVERSE VOLTAGE         | Vr | V    | 5.0               | 5.0        | 5.0       |
| REVERSE CURRENT         | Ir | μA   | 10                | 10         | 10        |
| FORWARD VOLTAGE@20mA    | Vf | V    | 2.7-3.7           | 2.7-3.2    | 1.7-2.2   |
| LUMINOUS INTENSITY@20mA | Iv | mcd  | 25~80             | 90~225     | 57~140    |



ATTENTION

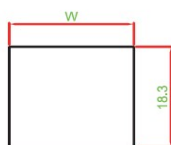
(+) ○ — (⊗) — (⊙) ○ (-)

LEDs are Electrostatic Sensitive devices

## Material

- COVER : PC
- ACTUATOR : POM
- BASE FRAME : PA + GF
- TERMINAL : BRASS SILVER PLATING
- MOVING CONTACT : PHOSPHOR BRONZE GOLD PLATING

## Panel Cut Out



| PANEL THICK | W           |
|-------------|-------------|
| 0.75 ~ 1.25 | 20.1 ~ 20.3 |
| 1.25 ~ 2.0  | 20.3 ~ 20.5 |
| 2.0 ~ 3.0   | 20.5 ~ 20.7 |

## Application

|                                       |                           |
|---------------------------------------|---------------------------|
| noiseless                             | audio video products      |
| full colour LED illuminated available | Instrumentaion            |
| long electrical life cycles           | communications equipments |
| SPST, momentary function              |                           |

## Tolerances unless otherwise specified (mm)

| X      | X.X       | X.XX      | X.XXX  | Angle      |
|--------|-----------|-----------|--------|------------|
| ±      | ±         | ±         | ±      | ±3°        |
| DRW:   | Jason     | CHKD:     | Wilson | MATL:      |
| APPD:  | Schumi    |           |        | FINISH     |
| Wilson | TOLERANCE | Mason     | DATE   | 16.04.2025 |
| Jamy   |           | Sheet No. |        | 2 from 9   |

## THT Panel Tact Switch 12x12mm H=23mm

Part No.: **Q32061**

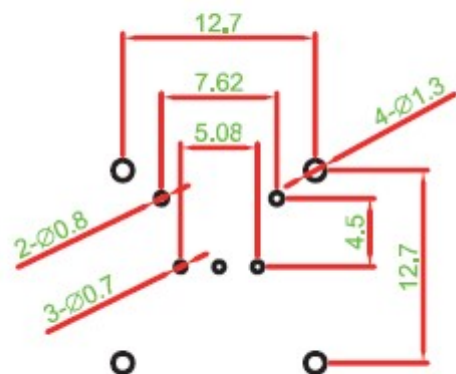
Customer:

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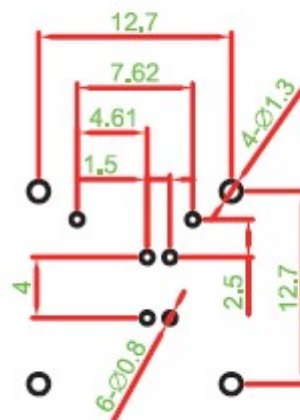


## PCB Layout (mm)

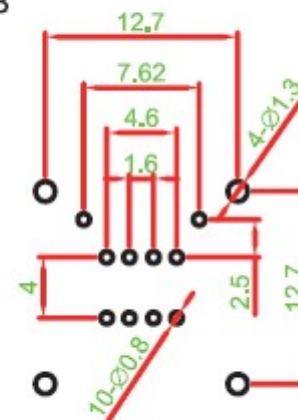
Single color  
or two color



RGB

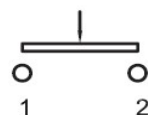


2RGB

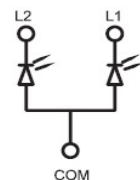


## Schematic

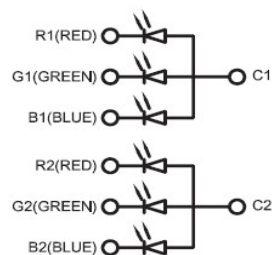
SWITCH



LED



OR



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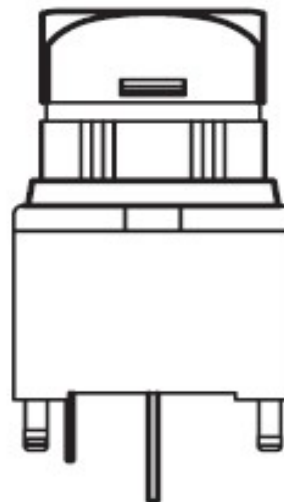
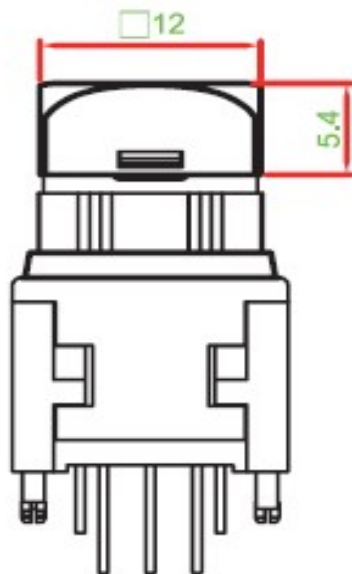
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Technical Dimensions ( mm)



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## Engraving Symbols

|   | 0        | 1              | 2        | 3      | 4     | 5        | 6           | 7         | 8           | 9       | 10     | 11     | 12     | 13     | 14        | 15     | 16     | 17     | 18     | 19     |
|---|----------|----------------|----------|--------|-------|----------|-------------|-----------|-------------|---------|--------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|
| A | 0        | 1              | 2        | 3      | 4     | 5        | 6           | 7         | 8           | 9       | 10     | 11     | 12     | 13     | 14        | 15     | 16     | 17     | 18     | 19     |
| B | A        | B              | C        | D      | E     | F        | G           | H         | I           | J       | CH5    | CH6    | DSK    | PIP    | C-KEY     | CUT    | TAKE   | REC    | ENG    | PROD   |
| C | K        | L              | M        | N      | O     | P        | Q           | R         | S           | T       | REPLAY | RET1   | RET2   | KEY ON | AUTO TAKE |        |        |        |        |        |
| D | U        | V              | W        | X      | Y     | Z        | POWER       | ON<br>OFF | ON          | OFF     |        | USER A | USER B | USER C | USER D    | USER E | USER F | USER G | USER H | USER I |
| E | OK       |                | Auto     | Enter  | Start | STOP     | OPEN        | CLOSE     | Exit        | Move    | USER J |        |        |        |           |        |        |        |        |        |
| F | SET      | Reset          | Light    | Alarm  | Menu  | Next     | Back        | Delete    | Motor       | Save    |        |        |        |        |           |        |        |        |        |        |
| G | Up       | Down           | Right    | Left   | Test  | End      | Insert      | Lock      | Print       | +/-     |        |        |        |        |           |        |        |        |        |        |
| H | ESC      | BC.            | HOME     | Health | LED 2 | OC GENIE | VIDEO INPUT | clr CMOS  | Green Power | Save OK |        |        |        |        |           |        |        |        |        |        |
| I | B/R<br>+ | Undo<br>Cancel | T/L<br>- | F1     | F2    | F3       | F4          | F5        | F6          | F7      |        |        |        |        |           |        |        |        |        |        |

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|   | 0    | 1    | 2            | 3            | 4         | 5              | 6       | 7           | 8    | 9    | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|------|------|--------------|--------------|-----------|----------------|---------|-------------|------|------|----|----|----|----|----|----|----|----|----|----|
| J | F8   | F9   | F10          | F11          | F12       | F13            | F14     | IN 1        | IN 2 | IN 3 |    |    |    |    |    |    |    |    |    |    |
| K | IN 4 | IN 5 | IN 6         | ⏻            | ⦿         | ⦿              | ⦿       | ⬅           | ⬅    | ⬅    |    |    |    |    |    |    |    |    |    |    |
| L | +    | -    | ×            | ÷            | =         | ↑              | →       | ▲           | ▶    | ▶    |    |    |    |    |    |    |    |    |    |    |
| M | ↕    | ⊗    | ↻            | ↻            | ↻         | ↻              | ↑       | →           | ↑    | →    |    |    |    |    |    |    |    |    |    |    |
| N | ↑    | →    | ▲            | ◀            | ▲         | ▶              | ◀       | ▶           | ◀    | ▶    |    |    |    |    |    |    |    |    |    |    |
| O | ■    | ⏸    | ↔            | ◀            | ◀         | ▶              | ▶       | ⦿           | ⦿    | ⦿    |    |    |    |    |    |    |    |    |    |    |
| P | ⦿    | ⦿    | ⦿            | ×            | ✓         | ⦿              | Config. | TIME LINE   | ME1  | ME2  |    |    |    |    |    |    |    |    |    |    |
| Q | ME3  | ME4  | BGND 3D DVE1 | BGND 3D DVE2 | BUS COLOR | ME BUTTON LINK | *       | INSERT      | WIPE | ⦿    |    |    |    |    |    |    |    |    |    |    |
| R | ⏮    | ALL  | ⏮            | VP           | ⦿         | COPY           | ⦿       | RECORD MODE | ↕    | ⦿    |    |    |    |    |    |    |    |    |    |    |

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|   | 0          | 1    | 2     | 3     | 4     | 5      | 6          | 7         | 8          | 9        | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|------------|------|-------|-------|-------|--------|------------|-----------|------------|----------|----|----|----|----|----|----|----|----|----|----|
| S |            |      | MUTE  |       |       |        |            |           |            |          |    |    |    |    |    |    |    |    |    |    |
| T |            | head | group | mt    | mt    | mt     | mt         | mt        | a1         | a2       |    |    |    |    |    |    |    |    |    |    |
| U | a1         | a2   | chair | audio | radio | detail | store      | reset     | a1         | a2       |    |    |    |    |    |    |    |    |    |    |
| V | a3         | a4   | OC    |       |       | CLEAR  | CROSS WIND | AMMO TEMP | BARO PRESS | AIR TEMP |    |    |    |    |    |    |    |    |    |    |
| W | BORE-SIGHT | CANT | LEAD  | RANGE | MRS   | ZERO   | TEST       | UD        | LR         |          |    |    |    |    |    |    |    |    |    |    |
| X | ID         | Disp | MF    | CALL  | .     | BAND   | SETUP      | MODE      | LINK       | FUNC.    |    |    |    |    |    |    |    |    |    |    |
| Y | SHIFT      |      |       |       |       | DEL    |            |           |            |          |    |    |    |    |    |    |    |    |    |    |
| Z |            |      |       | RUN   | 2D    | 3D     | CH1        | CH2       | CH3        | CH4      |    |    |    |    |    |    |    |    |    |    |

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## Ordering Informations

| Serie         | Operation | Pole     | Position | Actuation Type | L1        | L2        | Diffuser Plate Colour | Cap Colour | CAP Symbol | ROHS     | Packing Code |
|---------------|-----------|----------|----------|----------------|-----------|-----------|-----------------------|------------|------------|----------|--------------|
| <b>Q32061</b> | <b>N</b>  | <b>1</b> | <b>1</b> | <b>T</b>       | <b>PG</b> | <b>UR</b> | <b>X</b>              | <b>X</b>   | <b>X</b>   | <b>R</b> | <b>TY</b>    |

|                     |                  |                    |                            |                             |                             |                                             |                                                     |                                                        |                            |                       |
|---------------------|------------------|--------------------|----------------------------|-----------------------------|-----------------------------|---------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|----------------------------|-----------------------|
| <b>N=</b> Momentary | <b>1=</b> 1 Pole | <b>1=</b> Position | <b>T=</b> Tactile Type     | <b>X=</b> without LED       | <b>X=</b> without LED       | <b>X=</b> White ( Standard)                 | <b>X=</b> Transparent ( Standard)                   | <b>X=</b> without Symbol                               | <b>R=</b> ROHS Conform     | <b>TY=</b> Tray       |
|                     |                  |                    | <b>N=</b> NON Tactile Type | <b>UB=</b> Ultra Blue       | <b>UB=</b> Ultra Blue       | <b>R=</b> Red                               | <b>R=</b> Red                                       | Example                                                | <b>N=</b> NON ROHS Conform | <b>IV=</b> Individual |
|                     |                  |                    |                            | <b>UR=</b> Ultra Red        | <b>UR=</b> Ultra Red        | <b>N=</b> Green                             | <b>N=</b> Green                                     | Symbol <b>K3=</b> Laser Graving<br><b>PK3</b> Printing |                            |                       |
|                     |                  |                    |                            | <b>UW=</b> Ultra White      | <b>UW=</b> Ultra White      | <b>B=</b> Blue                              | <b>B=</b> Blue                                      |                                                        |                            |                       |
|                     |                  |                    |                            | <b>UY=</b> Ultra Yellow     | <b>UY=</b> Ultra Yellow     | <b>Y=</b> Yellow                            | <b>Y=</b> Yellow                                    | Symbol <b>E1=</b> Laser Graving<br><b>PE1</b> Printing |                            |                       |
|                     |                  |                    |                            | <b>PG=</b> Pure Green       | <b>PG=</b> Pure Green       | <b>W=</b> White (When Indicator CAP Colour) | <b>T=</b> White (When Indicate the diffuser Colour) |                                                        |                            |                       |
|                     |                  |                    |                            | <b>A1=</b> Full Colour *1   | <b>A1=</b> Full Colour *1   |                                             |                                                     |                                                        |                            |                       |
|                     |                  |                    |                            | <b>A2=</b> Full Colour *2   | <b>A2=</b> Full Colour *2   |                                             |                                                     |                                                        |                            |                       |
|                     |                  |                    |                            | <b>A3=</b> NFull Colour *1  | <b>A3=</b> NFull Colour *1  |                                             |                                                     | <b>S=</b> Silver                                       |                            |                       |
|                     |                  |                    |                            | <b>A2=</b> 2NFull Colour *2 | <b>A2=</b> 2NFull Colour *2 |                                             |                                                     |                                                        |                            |                       |

|                                                       |
|-------------------------------------------------------|
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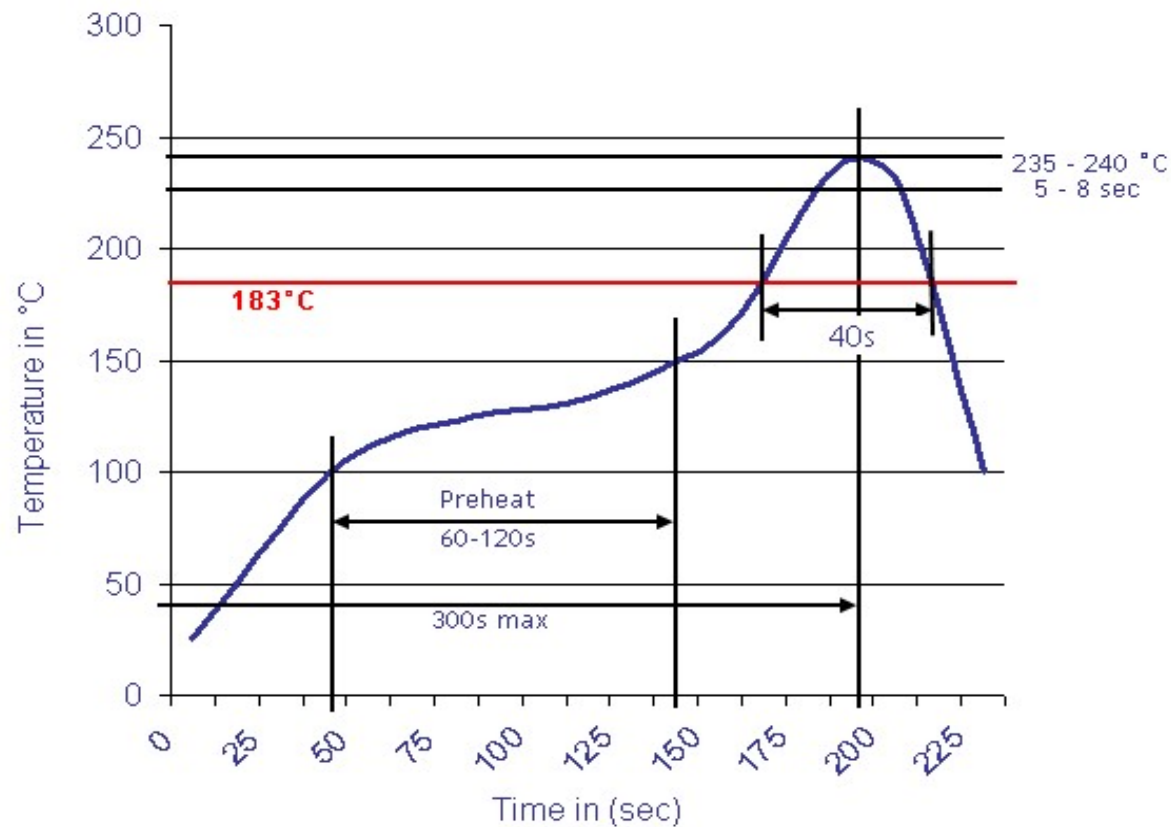
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## Soldering Profile Curve

### Classification Reflow Profile (JEDEC J-STD-020C)



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