

**SERIES:** TS14 | **DESCRIPTION:** TACTILE SWITCH**FEATURES**

- 5~15 mm actuator
- crimped pins
- through hole

**SPECIFICATIONS**

| parameter             | conditions/description                                   | min  | typ     | max  | units  |
|-----------------------|----------------------------------------------------------|------|---------|------|--------|
| rated voltage         |                                                          | 1    |         | 12   | Vdc    |
| rated current         |                                                          | 0.01 |         | 50   | mA     |
| withstanding voltage  | for 1 minute                                             |      | 250     |      | Vac    |
| contact resistance    | applying load of 2 times operating force at 5 Vdc, 10 mA |      |         | 100  | mΩ     |
| insulation resistance | at 100 Vdc for 1 minute                                  | 100  |         |      | MΩ     |
| operating force       | see force table                                          |      |         |      |        |
| actuator travel       |                                                          | 0.25 | 0.35    | 0.45 | mm     |
| operating temperature |                                                          | -30  |         | 80   | °C     |
| storage temperature   |                                                          | -40  |         | 90   | °C     |
| life                  | rated load, 2 cycles/second, 1.5 times operating force   |      |         |      |        |
|                       | 100 gf models                                            |      | 100,000 |      | cycles |
|                       | 160 gf models                                            |      | 80,000  |      | cycles |
|                       | 260 gf models                                            |      | 60,000  |      | cycles |
| vibration             | 10~55~10 Hz, 1.5 mm amplitude, 2 hours on each XYZ       |      |         |      |        |
| flammability rating   | see material table                                       |      |         |      |        |
| RoHS                  | yes                                                      |      |         |      |        |

**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 3 seconds  |     |     | 350 | °C    |
| wave soldering | for maximum 5 seconds  |     |     | 260 | °C    |

**PART NUMBER KEY**

**TS14 - 1212 - XX - BK - XXX - SCR - D**

Base Number

Actuator Height:

43 = 4.3 mm    80 = 8.0 mm  
 50 = 5.0 mm    90 = 9.0 mm  
 55 = 5.5 mm    100 = 10.0 mm  
 60 = 6.0 mm    120 = 12.0 mm  
 65 = 6.5 mm    140 = 14.0 mm  
 70 = 7.0 mm    150 = 15.0 mm

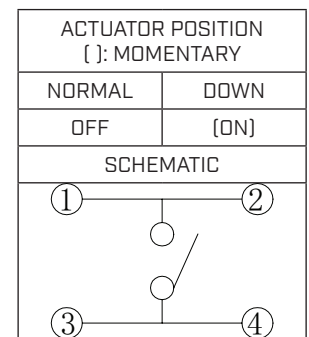
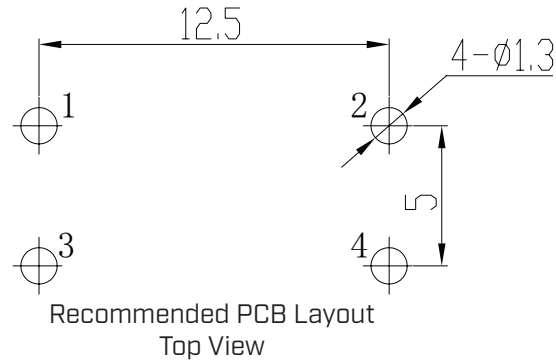
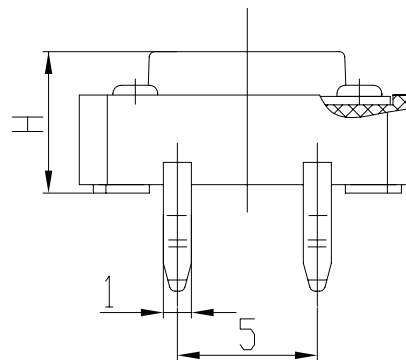
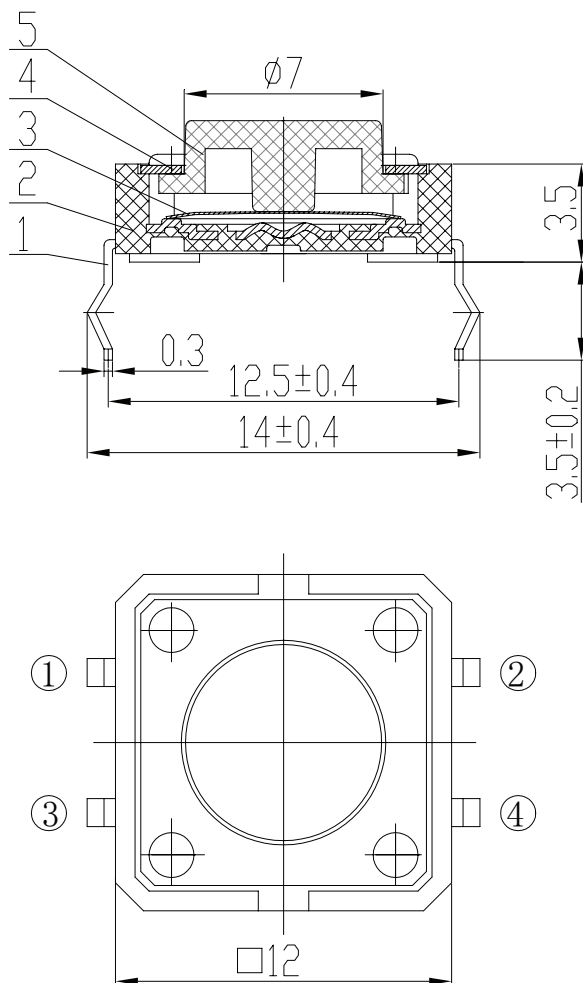
Push Force:

100 = 100 gf  
 160 = 160 gf  
 260 = 260 gf

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.2$  mm  
unless otherwise noted

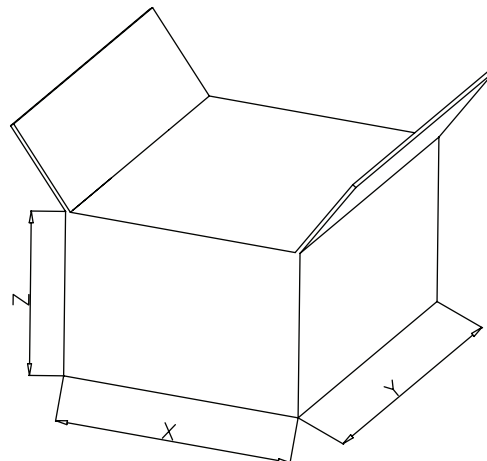
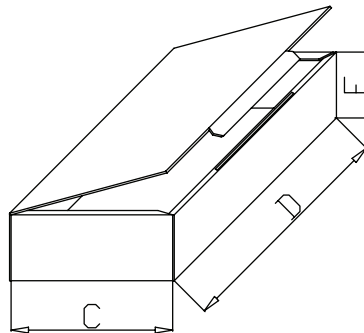
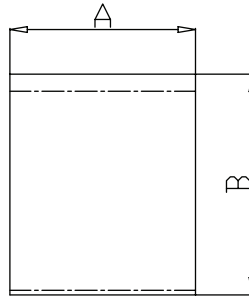
| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | terminals   | brass           | silver        |
| 2    | housing     | PA66 (UL94HB)   | black         |
| 3    | contacts    | phosphor bronze | silver        |
| 4    | cover       | stainless steel |               |
| 5    | stem        | PA66 (UL94HB)   | black         |



| Operating Force Table |                  |                   |
|-----------------------|------------------|-------------------|
| Model                 | Press Force [gf] | Return Force [gf] |
| 100                   | 100 $\pm$ 30     | >20               |
| 160                   | 160 $\pm$ 50     | >20               |
| 260                   | 260 $\pm$ 50     | >20               |

## PACKAGING

| Packaging Table             |                     |         |                             |               |                          |            |
|-----------------------------|---------------------|---------|-----------------------------|---------------|--------------------------|------------|
| Actuator Height Models (mm) | Bag Size (AxB) (mm) | Bag QTY | Inner Box Size (CxDxE) (mm) | Inner Box QTY | Carton Size (XxYxZ) (mm) | Carton QTY |
| 4.3~10.0                    | 160 x 190           | 500     | 160 x 216 x 61              | 1,000         | 350 x 455 x 270          | 16,000     |
| 12.0~15.0                   | 160 x 190           | 500     | 160 x 216 x 61              | 500           | 350 x 455 x 270          | 8,000      |



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 04/13/2022 |
| 1.01 | logo, datasheet style update | 08/05/2022 |

The revision history provided is for informational purposes only and is believed to be accurate.



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