

Additional Resources: Product Page | 3D Model | PCB Footprint

date 09/12/2024

page 1 of 5

## SERIES: TS02 | DESCRIPTION: TACTILE SWITCH

#### **FEATURES**

- · through hole
- · long crimped pins
- · short crimped pins





#### **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		0.15	0.25	0.35	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 160 gf models 260 gf models		100,000 80,000 60,000		cycles cycles 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**

TS02 - 66 - XX - BK - XXX - XXX - D

Base Number Actuator Height:

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43 = 4.3 mm 80 = 8.0 mm 130 = 13.0 mm 50 = 5.0 mm 90 = 9.0 mm \*140 = 14.0 mm \*55 = 5.5 mm 95 = 9.5 mm 150 = 15.0 mm 60 = 6.0 mm 100 = 10.0 mm 153 = 15.3 mm 70 = 7.0 mm 110 = 11.0 mm \*160 = 16.0 mm 73 = 7.3 mm \*120 = 12.0 mm 170 = 17.0 mm

100 = 100 qf160 = 160 gf 260 = 260 gf

Push Force:

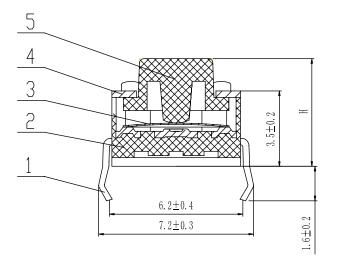
Terminals: SCR = Short Crimped LCR = Long Crimped

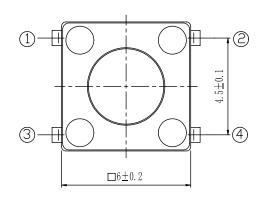
Note: \*Only available with LCR (long crimped) terminals.

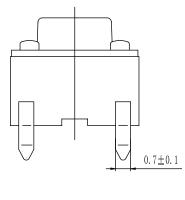
# **MECHANICAL DRAWING (SCR VERSION)**

units: mm tolerance: ±0.2 mm unless otherwise noted

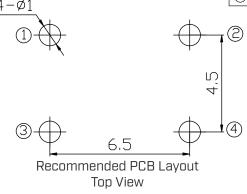
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	PA66 (UL94HB)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	PA66 (UL94HB)	black







	ACTUATOR POSITION ( ): MOMENTARY			
	NORMAL	DOWN		
	OFF	(ON)		
	SCHEMATIC			
_	10			
	30			

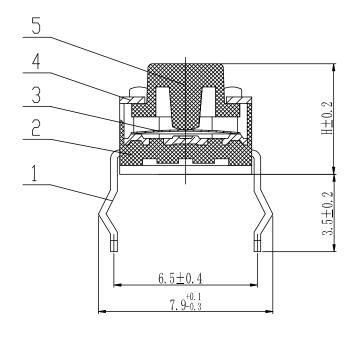


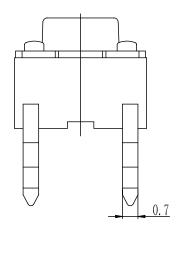
Operting Force Table			
Model	Press Force (N)	Return Force (N)	
100	1.0±0.3	>0.2	
160	1.6±0.5	>0.2	
260	2.6±0.5	>0.2	

# **MECHANICAL DRAWING (LCR VERSION)**

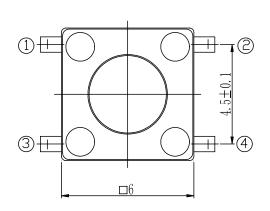
units: mm tolerance: ±0.2 mm unless otherwise noted

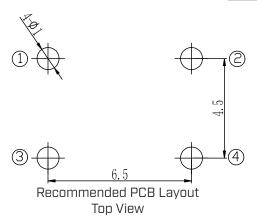
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminals	brass	silver
2	housing	PA66 (UL94HB)	black
3	contacts	phosphor bronze	silver
4	cover	stainless steel	
5	stem	PA66 (UL94HB)	black





ACTUATOR POSITION ( ): MOMENTARY			
NORMAL DOWN			
OFF (ON)			
SCHEMATIC			
1	(a)		
(a)	(4)		



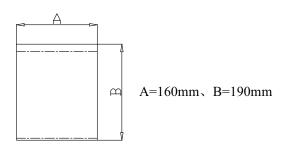


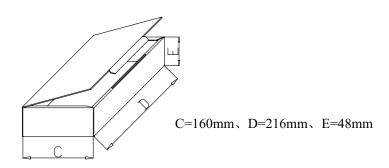
Operting Force Table			
Model	Press Force (N)	Return Force (N)	
100	1.0±0.3	>0.2	
160	1.6±0.5	>0.2	
260	2.6±0.5	>0.2	

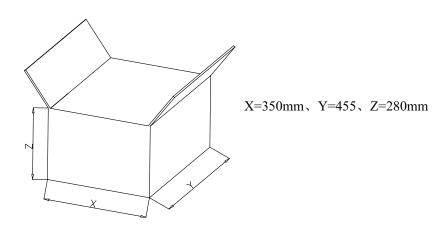
## **PACKAGING**

units: mm

Bag Size: 190 x 160 mm Carton Box Size: 445 x 350 x 280 mm Bag QTY: 1,000 pcs per box Carton Box QTY: 60,000 pcs per bag







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SAME SKY | SERIES: TS02 | DESCRIPTION: TACTILE SWITCH

**date** 09/12/2024 | **page** 5 of 5

### **REVISION HISTORY**

rev.	description	date
1.0	initial release	09/21/2021
1.01	logo, datasheet style update	08/05/2022
1.02	CUI Devices rebranded to Same Sky	09/12/2024

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.