APPLICATION

RoHS

CUSTOMER:

REF.NO:

DATE: 200. .

CHK DSN APP M.K.R M.K.J K.Y.I

MODEL: TACT SWITCH MODEL No.: DJT 1103A

Approved by	Remark

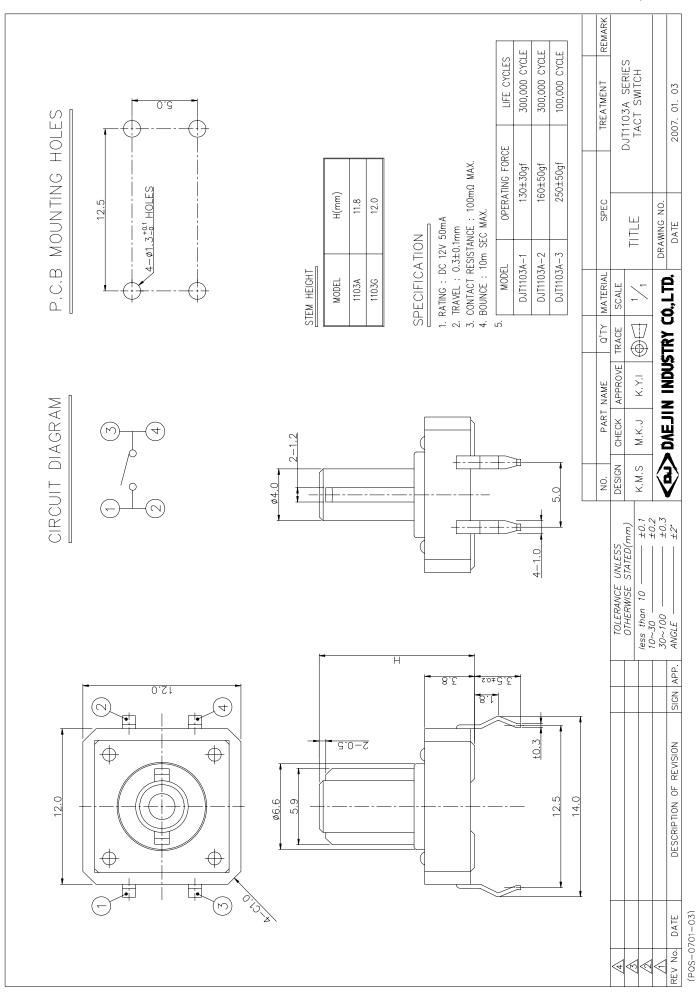
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SPECIFICATION 3 ~6

주식회사 대진산업

DAEJIN INDUSTRY CO.,LTD



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1. General

1.1 Switch rating : DC 12V, 50mA 1.2 Operation temperature range : $-20\% \sim 70\%$ 1.3 Preservative temperature range : $-30\% \sim 80\%$

1.4 Appearance and dimensions : See outside drawing page

1.5 Standard conditions : Unless otherwise specified, the test and measurements shall

be carried out as follows:

Ambient temperature : $5 \sim 35 \,^{\circ}$ C Relative humidity : $45 \sim 85\%$ RH

Air pressure : 86 ~ 106kpa (860 ~ 1060mbar)

However, if doubt arises on the decision based on the measured values under the above-mentioned conditions, the following conditions

shall be employed.

Ambient temperature : 20 ± 2 °C Relative humidity : 65 ± 5 %RH

Air pressure : 86 ~ 106kpa (860 ~ 1060mbar)

2. Performance

2.1 Electrical characteristics

NO.	ITEMS	TEST CONDITIONS	PERFORMANCE
2.1.1	Contact Resistance	Applying a static load twice the actuating force to the center of the stem, measurements shall be made with a 1kHz small-current contact resistance meter.	100mΩ Max.
2.1.2	lnsulation Resistance	Measurements shall be made following application of DC 100V potential across terminals and across terminals and frame for one minute.	100MΩ Min.
2.1.3	Dielectric Withstanding Voltage	AC 250V (50Hz or 60Hz) shall be applied across terminals and across terminals and frame for one minute.	There shall be no breakdown
2.1.4	Bounce	Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 operation per sec.) bounce shall be tested at 'ON' and 'OFF' S/W Oscillo scope	10msec Max.

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2.2	2.2 Mechanical characteristics							
NO.	ITEMS		TEST C	ONDITIONS		PERFOR	RMANCE	
2.2.1	Operation For		Push by recommended operating condition Force Push force Return force Travel					
2.2.2.	Travel	Push by recomn F = (Operation f		rating condition Travel		0.3 ±0).1 mm	
2.2.3	Stop Strengt						damage (Electrical Mechanical)	
2.2.4	Vibration Te	(2) Sweep rate (3) Sweep methol (4) Vibration dir	 (1) Amplitude : 1.5mm (2) Sweep rate : 10-55-10Hz for 1 minute. (3) Sweep method : Logarithmic frequency sweep rate. (4) Vibration direction : X.Y.Z (3 directions). (5) Time : Each direction 2 hours (Total 6 hours). 				No. 2.1 and 2.2.1 to 2.2.2 shall be satisfied.	
2.2.5	Impact Shock 1	(2) Cycles of tes	(1) Acceleration : 80G (2) Cycles of test : 3 cycles each in 6 directions for a total 18 cycles.				No. 2.1 and 2.2.1 to 2.2.2 shall be satisfied.	
2.2.6	Soldering heat	test (P.W.B:t = Soldering tempe	Soldering area: $t/2$ of P.W.B thickness (P.W.B: $t=1.6$) Soldering temperature: 260 ± 5 °C Soldering time: 5 ± 1 sec					

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2.3	2.3 Climatic characteristics								
NO.	ITEMS		TEST C	ONDITIONS		PERFOR	MANCE		
2.3.1	Cold test	(2) Duration of t (3) Take off a di	 (1) Temperature : -30±2℃ (2) Duration of test : 96 hours (3) Take off a drop water (4) Standard conditions after test : 1 hour 				Contact Resistance : $200 \text{m}\Omega$ max. No. 2.1.2 to 2.1.4 & 2.2.1 to 2.2.2 shall be satisfied.		
2.3.2	Heat test	(2) Duration of t	(1) Temperature : 80 ± 2 °C				x. 2.1.4 & 2.2.1		
2.3.3	Temperature Cyo	(3) 1 cycle 60℃ -10℃		er test : 1 hour		Contact Resi : 200mΩ max No. 2.1.2 to to 2.2.2 shall	x. 2.1.4 & 2.2.1		
2.3.4	Humidity Test	(2) Relative hum (3) Duration of t (4) Take off a d	 (1) Temperature : 60±2℃ (2) Relative humidity : 90 ~ 95% (3) Duration of test : 96 hours (4) Take off a drop water (5) Standard conditions after test : 1 hour 				Contact Resistance: 200mΩ max. No. 2.1.2 to 2.1.4 & 2.2.1 to 2.2.2 shall be satisfied.		
2.3.5	Operating Life Te	(2) Operation sp (3) Push force	 (2) Operation speed : 2 ~ 3 cycles/sec (3) Push force : Maximum value of operation force (4) Cycles of operation : See outside drawing page 				Contact Resistance: 200mΩ max. Bounce: 20m sec max. Operating force: initial value ±30% No. 2.1.2 to 2.1.3 & 2.2.2 shall be satisfied.		
2.3.6	Salt mist test	(1) Temperature(2) Salt solution				Without exce or discolorat			

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3. Soldering

3.1 Auto soldering conditions

ITEM	CONDITION
Preheat temperature	110℃ max. (Environmental temperature of soldering surface of P.W.B)
Preheat time	60 sec max.
Area of flux	1/2 max. of P.W.B thickness
Temperature of solder	255℃ max.
Time of immersion	Within 5 sec
Soldering number	Within 2 time (But should bring down heat of the first soldering)
Printed wiring board	Single sided copper-clad laminates.

- 1) After switches were soldered, please be careful not to clean switches with solvent.
- 2) In the case of using soldering iron, soldering conditions shall be 280℃ max. and 3 sec max.
- 3) After switches were soldered, please be careful not to load the knobs of switchs.
- 3.2 Manual soldering conditions

Temperature : 350 ± 5℃

Time: 3 sec max.

4. Safety Keeping Condition

- 1) Please keep the received products under conditions of not high temperature, no high humidity and no direct-rays of the and no corrosive gases.
- 2) Our products are strongly recommended to use off within 3 months and are guaranteed the quality for 6 months of maximum period after receiving the products.
- 3) Please put some desiccants after opening off a vinyl pack in order not to enter the damp air and keep the products at the same place of the above-mentioned
- 4) Please be cautious not to give excessive load on the products.
- 5) Please be cautious not to keep the products with high pressure on the push buttons.