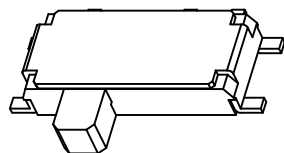
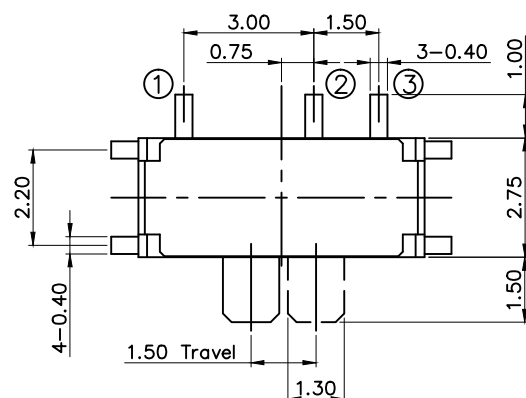


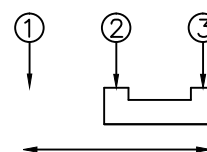
△				
△				
△				
△				
ZONE	REV	DESCRIPTION	DATE	APPD.



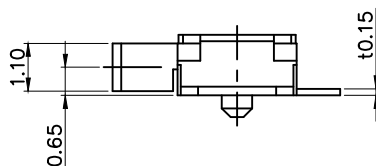
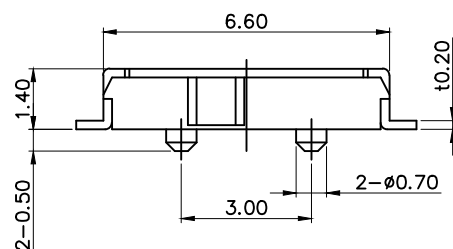
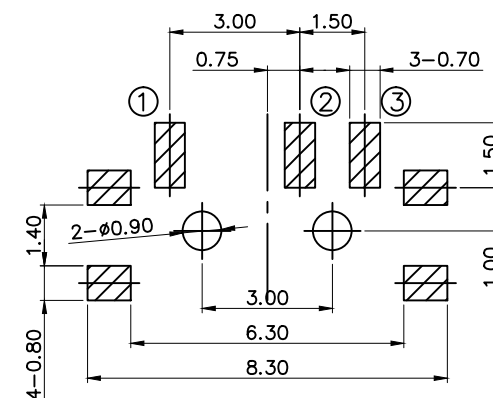
RoHS
Compatible



CIRCUIT DIAGRAM



RECOMMENED P.C.B MOUNTING
PATTERN DIMENSION



Specifications

1. Rating : DC 12V, 50mA.
2. Travel : 1.50±0.10mm
3. Contact resistance : 100mΩ Max.
4. Insulation resistance : 100MΩ Min.
5. Operating force : 160±100gf
6. Operating life : 10,000 cycles.

6	Clip	Phosphor Bronze	1	Ag Plated
5	Stem	PPA	1	White
4	Cover	Brass	1	Ag Plated
3	Spring	Stainless steel	1	—
2	Terminal	Phosphor Bronze	1	Ag Plated
1	Base	LCP	1	Black
No.	Part Name	Material	Q'ty	Finishing

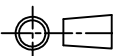
達立科技股份有限公司



Dawning Precision Co., Ltd.

TEL: 886-2-82271388 FAX: 886-2-82272198

DESIGN	Eason	SCALE	
DRAWING	Eason	UNIT	mm
CHECK	Eason	SIZE	A4: 210*297
APPROVAL	Honda	VERSION	02



TOLERANCE UNLESS OTHERWISE STATED(mm)
0 ——— ±0.35
0.0 ——— ±0.30
0.00 ——— ±0.20
ANGLE ——— ±2°

PART NAME	SLIDE SWITCH
PART NO	SS-B90AP-W-SP-S085
DRAWING NO	
DATE	2020/02/19

SLIDE SWITCH SPECIFICATION

1. General

1.1 Appearance and dimensions : Refer to drawing spec

1.2 Operation temperature range : -20°C ~ +85°C

1.3 Preservative temperature range : -40°C ~+85°C

1.4 Switch rating : DC 12V, 50mA

1.5 Standard conditions : Unless otherwise specified, the test and measurements shall be carried out as follows :

Ambient temperature : 5 ~ 35°C

Relative humidity : 45 ~ 85%RH

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

However, if doubt arises on the decision based on the measured value under the above-mentioned conditions, The following conditions shall be employed.

Ambient temperature : $20 \pm 2^{\circ}\text{C}$

Relative humidity : $65 \pm 5\%\text{RH}$

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



2. Performance

2.1 Electrical characteristics

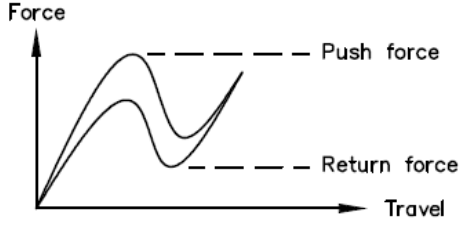
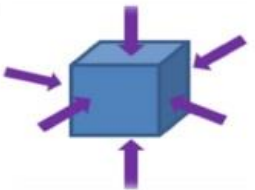
No	Items	Test Conditions	Performance
2.1.1	Contact Resistance	Measurement shall be made with a 1kHz current contact resistance meter. (20mV, 5 ~ 50mA)	100mΩ Max.
2.1.2	Insulation Resistance	DC 250V (Between terminals) frame for 1 minute.	100MΩ Min.
2.1.3	Dielectric Withstanding Voltage	AC 250V (Between terminals) frame for 1 minute.	No insulation destruction
2.1.4	Bounce	Operation speed : 3 ~ 4 times/s	ON : 3ms Max. OFF: 8ms Max.

					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
02	2018/03/06				Honda	Eason	Eason	DRAWING	SS-B90AP-W-SP-S085	1/4
MARK	DATE	APPR	CHECK	DESIGN				NO		



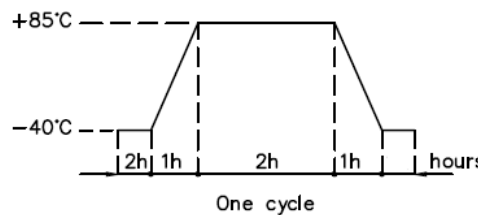
DAWNING PRECISION CO., LTD.

2.2 Mechanical characteristics

No	Items	Test Conditions	Performance
2.2.1	Operation Force	Push by recommended operating condition 	 Push force ($160 \pm 10\text{gf}$)
2.2.2	Travel	Push by recommended operating condition $F = (\text{Operation force}) \times 2$	$1.5 \pm 0.1\text{mm}$
2.2.3	Push strength	A static load of 9.8N (1kgf) shall be applied in the direction of stem operation for a period of 60 seconds.	No damage (Electrical and Mechanical)
2.2.4	Vibration Test	(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	Shock	Peak acceleration : 500m/S^2 Pulse duration : 11ms Test time-6direction,each 3 times total 18 times 	Contact resistance : $200\text{m}\Omega$ Max. Insulation resistance : $100\text{M}\Omega$ Min. Withstand voltage : No. destruction. No. 2.2.1 to 2.2.2 shall be satisfied.
2.2.6	Solderbility	After sprayed flux Temperature : $245 \pm 5^\circ\text{C}$ Soldering time : 3 ± 0.5 sec	90% or more of surface area of the portion immersed in solder shall be covered by new solder
2.2.7	Soldering heat resistance	Soldering temperature : $260 \pm 5^\circ\text{C}$ Soldering time : 3 ± 0.5 sec	No damage (Electrical and Mechanical)

					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
					Honda	Eason	Eason			
02	2018/03/06							DRAWING		
MARK	DATE	APPR	CHECK	DESIGN				NO	SS-B90AP-W-SP-S085	2/4

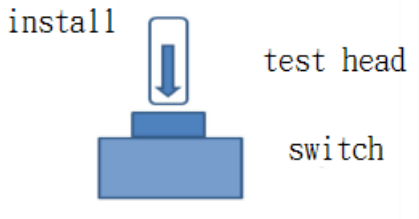
2.3 Climatic characteristics

No	Items	Test Conditions	Performance
2.3.1	Cold test	(1) Temperature : $-40 \pm 2^{\circ}\text{C}$ (2) Duration of test : 96 hours (3) Take off a drop water (4) Standard conditions after test : 1 hour	 Contact Resistance : 200mΩ Max. Insulation resistance : 100MΩ Min. Withstand voltage : No. destruction. No. 2.2.1 to 2.2.2 shall be satisfied.
2.3.2	Heat test	(1) Temperature : $80 \pm 2^{\circ}\text{C}$ (2) Duration of test : 96 hours (3) Standard conditions after test : 1 hour	
2.3.3	Temperature Cycle	(1) Test cycles : 5 cycles (2) Standard conditions after test : 1 hour 	
2.3.4	Humidity Test	(1) Temperature : $60 \pm 2^{\circ}\text{C}$ (2) Relative humidity : 90 ~ 95% (3) Duration of test : 96 hours (4) Take off a drop water (5) Standard conditions after test : 1 hour	
2.3.6	Salt mist	At 5% Nacl liquor for 8 hours depend on 35°C , After washing, Keep in normal condition.	No remarkable corrosion shall be recognized in metal part.

					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
02	2018/03/06				Honda	Eason	Eason	DRAWING	SS-B90AP-W-SP-S085	3/4
MARK	DATE	APPR	CHECK	DESIGN				NO		



2.4 Durability characteristics

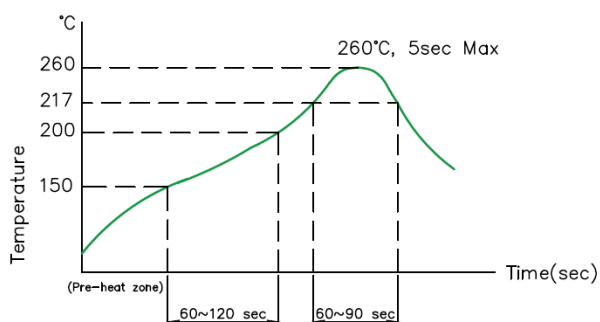
No	Items	Test Conditions	Performance
2.4.1	Endurance Test	(1) Operation speed : 20~30 time/s (2) Push force : Maximum value of operation force (3) Operation number : 10,000 Cycles 	Contact resistance : 200mΩ Max. Bouncing : 10ms Max. Insulation resistance : 100MΩ Min. Withstand voltage : No. destruction. Variations rate of operation force shall be within ±30% to the value before testing. No. 2.2.2 shall be satisfied.



3. SOLDERING

3.1 Reflow soldering conditions

ITEM	CONDITION
Preheat temperature	150°C Max (Environmental temperature of soldering surface of P.C.B)
Preheat time	60 sec Max.
Temperature of solder	260 ± 5°C Max.
Time of immersion	Within 5 sec



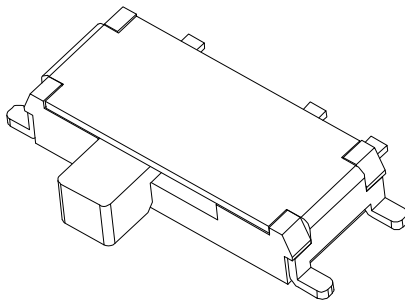
- (1) After switches were soldered, please be careful not clean switches with solvent.
- (2) In the case of using soldering iron, soldering conditions shall be 310°C Max and 5 sec Max.
- (3) Right after switches were soldered, Please be careful not to load on the knobs of switches.

					APPROVAL	CHECK	DESIGN	TITLE	Slide Switch	
02	2018/03/06				Honda	Eason	Eason	DRAWING	SS-B90AP-W-SP-S085	4/4
MARK	DATE	APPR	CHECK	DESIGN				NO		

4				
3				
2				
1				
ZONE	REV	DESCRIPTION	DATE	APPD.

R&D發行
2016.07.11
達立

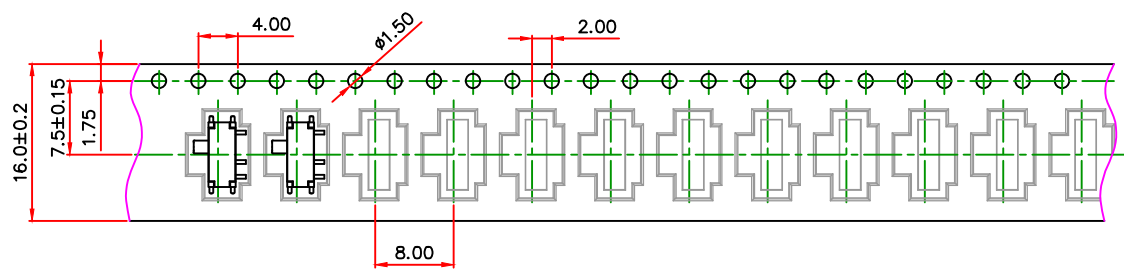
RoHS
Compatible



SLIDE SWITCH:
SS-B90AP-W-SP-S085

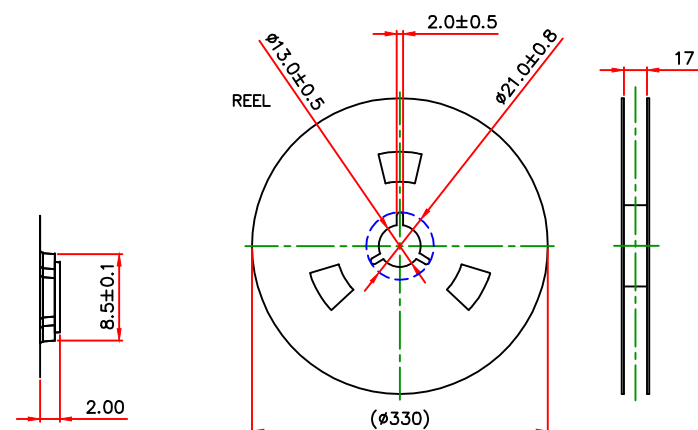
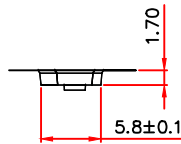
REEL FORM AND DIMENSIONS :

TAPE FORM AND DIMENSIONS :



NOTE:
PACKING QUANTITY : 3,000 PCS/REEL

PULLING-OUT DIRECTION



達立科技股份有限公司
Dawning Precision Co., Ltd.
TEL: 886-2-82271388 FAX: 886-2-82272198

DESIGN	Eason	SCALE	
DRAWING	Eason	UNIT	mm
CHECK	Eason	SIZE	A4: 210*297
APPROVAL	Honda	VERSION	03

TOLERANCE UNLESS OTHERWISE STATED(mm)	
0	±0.20
0.0	±0.15
0.00	±0.10
ANGLE	±5°

PART NAME	PACKING SPEC
PART NO	
DRAWING NO	
DATE	2016/07/11