

CHANGELOG OF THE DOCUMENT				
Version	Description	Page of modification	Issue by	Issue date
A	First released, RoHS compliant item	-	Amy	2007.11.29

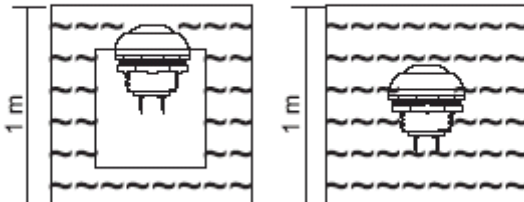
| SPECIFICATION FOR PUSHBUTTON SWITCH |

ATTENTION	
<p><i>Customer shall acknowledge the datasheet by returning "this cover page with authorized signature" before placing order. Lack of acknowledgement or additional response constitutes acceptance of the herein contents.</i></p> <p>下單前請將此份"規格書封面簽回",未簽回則視為承認本規格書內容.</p>	
Approved By	Entered Date

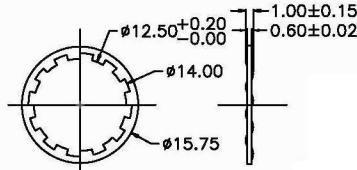
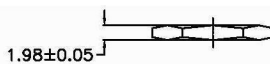
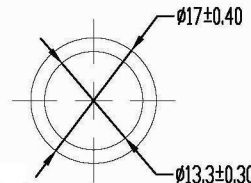
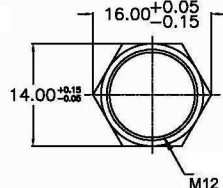
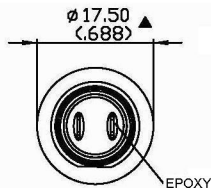
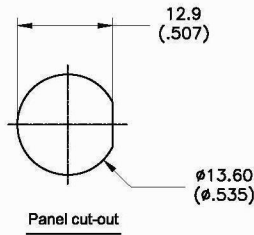
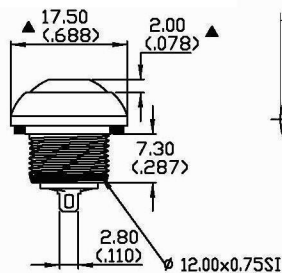
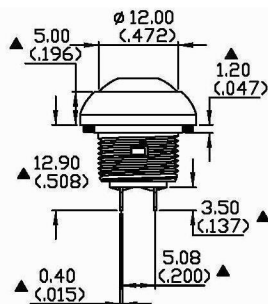


CUSTOMER:	_____
PART NO.:	_____
TAIWAY P/N.:	R18-B4P-M3-B
DATE OF ISSUE:	2012 May 10
ISSUE BY:	Kyme Chiang
APPROVED BY:	Amy Yen

Product Data Sheet		Page:	1	/	2
SWITCH TYPE:		Series R18 Pushbutton Switch			
POLES/THROWS:		SPST			
SWITCH FUNCTIONS:		OFF-MOM.			
ELECTRICAL CHARACTERISTICS	CONTACT RATING:	400mA 32VAC, 100mA 50VDC, 125mA 125VAC			
	ELECTRICAL LIFE:	500,000 make-and-break cycles at 100mA 50VDC			
	CONTACT RESISTANCE:	50m-ohms max. initial @ 2-4VDC, 100mA			
	INSULATION RESISTANCE:	Apply 500VDC for 1min+5sec. After which measurement to be made b/w terminals shall result 1G-ohms min.			
	DIELECTRICAL STRENGTH:	1,000VAC (50Hz-60Hz) RMS @ sea level shall result no damage to parts arcing or flashover			
	OPERATING TEMPERATURE:	-30Celsius degree to +85Celsius degree			
RELAIBILITY PERFORMANCE	MECHANICAL LIFE:	Without load @ 1,000,000cycles min.			
	OPERATING FORCE:	2~5N max.			
	TRAVEL:	1.5 +/- 0.25mm			
	TORQUE:	1.5Nm max. applied to nut			
	SOLDERING HEAT RESISTANCE:	Max manual soldering temperature @ 300Celsius degree, immersion time 3sec.			
	COLD TEST:	Stored at temperature -30(+/-3)Celsius degree for 96 hours, afterwards, the sample shall be left at room temperature for 1 hr before measurement is made. This shall result no changes to switch's electrical performance			
	HOT TEST:	Stored at temperature +85(+/-3)Celsius degree for 96 hours, afterwards, the sample shall be left at room temperature for 1 hr before measurement is made. This shall result no changes to switch's electrical performance			
	HUMIDITY TEST:	Stored at temperature 40(+/-2)Celsius degree with relative humidity 90%~95% for 96 hours, afterwards, the sample shall be left at room temperature for 1 hr before measurement is made. This shall result no changes to switch's electrical performance			

Product Data Sheet			Page:	2	/	2
RELAIBILITY PERFORMANCE	SALT SPRAY RESISTANCE:	Stored at temperature @ 35(+/-2)Celsius degree, and salt solution concentration of 5% with full air temperature @ 47(+/-2) Celsius degree and air pressure 1.0kg for 48 hours. The switch shall result no corrosion as well as no apparent changes to its functional performance				
	SEALING ABILITY:	<p>Front side: Protected against the effect of temporary immersion (1m below the surface of water for a duration of 30 minutes)</p> <p><b>IP 67</b> ACCORDING TO EN 60529:1991+A1:2001 IEC 60529:2001</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>IP 67 for the whole series: Protected against the effects of immersion up to 1 m water(30mn)</p>  </div>				
MATERIAL CHARACTERISTICS	CASE:	Thermoplastic UL 94-V0				
	BUSHING:	Polyamide 66				
	CAP:	Polyamide 66, color: (R)Red, (G)Green, (Y)Yellow, (O)Orange, (B)Blue, (W)White, (K)Black				
	MOVABLE CONTACT:	Copper alloy, gold over silver plated				
	TERMINALS:	Copper alloy, gold over nickel plated				
	HARDWARE:	Nut (Brass, nickel plated), washer (SUS)				
PACKAGE	RoHS IDENTIFICATIONS:	A label marking "RoHS compliant" and "Pb-free" will be attached to the carton box.				

REV.	DESCRIPTION	ENG.	APPROVE
更改	說明	修改人	審核



# SPECIFICATIONS

Max. current/voltage rating with resistive load:  
400mA 32VAC - 100 mA 50VDC - 125 mA 125VAC.  
INITIAL CONTACT RESISTANCE: 50 mΩ max.  
INSULATION RESISTANCE: 1 GΩ min. at 500VDC  
DIELECTRIC STRENGTH: 1,000 VAC rms.  
ELECTRICAL LIFE AT FULL LOAD: 500,000 cycle  
PANEL THICKNESS:  
B1 Series: 0.8 mm (.031) min. - 1.8 mm (.071) max.  
B2 Series: 1.5 mm (.059) min. - 4 mm (.157) max.  
TOTAL TRAVEL: 1.5 mm (.059).  
OPERATING FORCE: 2N-5N.  
CONTACT BOUNCE: 10 ms.  
MECHANICAL LIFE: 1,000,000 cycles.  
TORQUE: 1.5 Nm max. applied to nut.  
SOLDERING: 300°C max. for 3 seconds.  
IP67 Protection Class

# MATERIALS

CASE: thermoplastic UL94-V0.  
CAP: Polyamide 6/6.  
BUSHING: Polyamide 6/6.  
TERMINAL/CONTACTS: Gold over silver plated.  
ROHS:2002/95/EC

Model No.	POS.1	POS.2
Term. Comm.	OFF	MOM
	OPEN	SHORT
SCHEMATIC		

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGULAR TOLERANCE: ±1.0°		USED 層數	APPD. 審核 Amy 2007/11/29
DIMENSIONS TOLERANCE		FINISH 處理	CHKD. 校對 Amy 2007/11/29
0.00 TO 30.00mm ±0.20mm	30.01 TO 50.00mm ±0.25mm	SCALE 比例	DR. 製圖 Amy 2007/11/29
50.01 TO 150.00mm ±0.30mm	150.01 TO ±0.40mm	UNIT 單位 in(mm)	
MATERIAL		TITLE 名稱 PUSHBUTTON SWITCH	
		SIZE 圖幅 A4	
DWG NO. 圖號 R18-B4P-M3-x			
FILE NAME 檔案名稱 R18B4PM3.DWG		SHEET 張 1/1	REV. 版 1
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