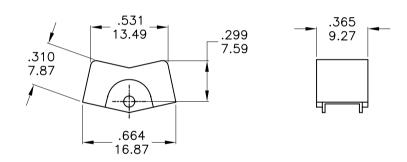


M - d - l	POS.1	POS.2	POS.3
Model No.			
3MS1	ON	NONE	ON
Term. Comm.	2-3		2-1
SCHEMATIC	2 Comm. 3	N/A	2 Comm. 3 C

SWITCH FUNCTION

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SPECIFICATIONS

MECHANICAL LIFE: 40,000 make-and-break cycles. **CONTACT RESISTANCE:** $10m\Omega$ max. initial @ 2-4VDC 100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000M Ω min.

DIELETRIC STRENGTH: 1,000 V RMS@sea level. **OPERATING TEMPERATURE:** -30°C to 85°C.

MATERIALS

CASE: Dially phthalate (DAP) (UL94v-0).

ACTUATOR: Nylon,black std.
BUSHING: Brass,nickel plated.
HOUSING: Stainless Steel.

SWITCHE SUPPORT: Brass, Tin plated.

TERMINAL/CONTACT: Brass, Silver or gold plated.

RoHS:2002/95/EC

RATING:

R: 0.4 Volt-Amps(VA) max. @20V max.(AC or DC)

Q: 2Amps @250VAC

5Amps @120 VAC or 28 VDC

德利威電子股份有限公司 DAILYWELL ELECTRONICS CO.,LTD.

	符號	原尺寸	修改後尺寸	變更日期	SCALE (比例): 3:2	TITLE 圖 名	Miniature Rocke	er & Paddle Switches	SIZE 圖紙	A4
$\frac{1}{2}$	(A) (B)				TOLERANCE (公差): 0.00 mm ± 0.25mm	DWG NO. 圖 號	3MS1J1	1021M6QES	UNIT i	inch mm
3	0				0.0 mm ± 0.40mm	REV. 版本	A DATE F	EB - 21 - 2008	SHEET 1	
5					ANGULAR:±5° FILE NAME: 3MSP0516	CHECKED BY 審核	RICHAR	DRAWN BY 製圖	FION	

DAILYWELL 德利威電子股份有限公司 版本:C 表單編號:QR-0507

3MS1 RX(JX) SERIES SPECIFICATION	Document No	QW-1002	REV: F
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1. Style

This specification describes "Miniature Rocker & Paddle Switches, mainly used as signal switch of electric devices, with the general requirements of mechanical and electrical characteristic.

Operating Temperature Range: -30°C~+85°C.

2. Contact Rating:

2.1 Silver Plating Standard:

	Plating			
Q=Silver	Fixed Terminal: Silver plated over copper alloy. Movable contact: Silver plated over copper alloy.			
C=Gold over silver	Fixed Terminal: Copper alloy with silver plated over gold plate. Movable contact: Copper alloy with silver plated over gold plate.	5Amps @120VAC		
S=Silver, pure-tin	Fixed Terminal: Copper alloy with silver plated, pure-tin. Movable contact: Silver plated over copper alloy.	or 28VDC. 2Amps @250VAC.		
K=Gold over silver pure-tin	Fixed Terminal: Copper alloy with silver plated over gold plate, pure-tin. Movable contact: Copper alloy with silver plated over gold plate.			

2MC1 DV(IV) CEDIEC CDECIEICATION	Document No	QW-1002	REV: F
3MS1 RX(JX) SERIES SPECIFICATION	Page	Page 2 of 5	Pb

2.2 Gold Plating Standard:

	Plating		
R=Go1d	Fixed Terminal: Copper alloy with gold plate over nickel plate. Movable contact: Copper alloy with gold		
	plate over nickel plate.	0.4 VA Max.	
G=Gold. pure-tin	Fixed Terminal: Copper alloy with gold plated over nickel plate, pure-tin. Movable contact: Copper alloy with gold plated over nickel plate.	@20VAC or DC Max.	

3. Type of Actuation: Miniature Rocker & Paddle Switches.

4. Test Sequence:

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
			By Visual Examination check	There shall be no
	1	Visual Examination	without and out pressure &	defects that affect
	1	VISUAI EXAMIIMATION	testing.	the serviceability of
				the product.
(III)			@2-4VDC 100mA. For both silver	
ELECTRIC	2	Contact Resistance	and gold plated contacts.	10mΩ Max
PERFORMANCE			Measurements shall be made	
FOR		Insulation	following application of 1000	
MAN	3	Resistance	V/ DC 100mA potential across	1000MΩ min/1000V
Œ		Resistance	terminals and cover for 1	
			minute.	
		Dielectric	1000 VAC(50Hz or 60Hz) 0.5mA	There shall be no
	4	Withstanding	shall be applied across	breakdown or
	4	Voltage	terminals and cover for 1	flashover.
		vortage	minute.	

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	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
MECHANICAL PERFPRMANCE	5	Solder Heat Resistance	OManual Soldering: Soldering Temperature: Max. 350°C Continuous Soldering Time: 5 seconds (Max). ②WAVE Soldering: Soldering Temperature: 260±5°C. Duration of Solder Immersion: 5 ±1 seconds Temperature Profile OFFICIAL PERICE SECONC PERICE SECONC Time (Seconce) ③Frequency of Soldering Process 2 times max. (PCB is 1.6mm in thickness) ■ Precautions in Handling Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.	①Shall be free from pronounced backlash and falling-off or breakage terminals. ②As shown in item 2~4.
	6	Vibration	Shall be vibrated in accordance with Method 201A of MIL-STD-202F ①Frequency: 10-55-10Hz in 1-min/cycle. ②Direction: 3 vertical directions including the directions of operation ③Test time:2 hours each direction.	



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	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
MECHANIC,	7	Shock	Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F ①Acceleration: 50g ②Action time: 11±1m seconds. ③Testing Direction: 6 sides. ④Test Cycle: 3 times in each direction.	As shown in item 2~4
MECHANICAL PERFPRMANCE	8	Actuation Force	MODEL-1305N MECHANICAL TEST 500gram · 1000gram · 2000gram. Test method:	At for test the force. Force: 600±150grams
OPERATING LIFE	9	Operating Life	Measurements shall be made following the test forth below: ①5A@120VAC resistive load—silver plated. 2A@250VAC resistive load—silver plated. 0.4VA max@ 20VAC max resistive load— gold plated. ② Rate of Operation: 6-8 operation cycles per minute. ③ Electronics Life Test: 6,000 cycles. Mechanical Life Test: 40,000 cycles.	① Dielectric Strength: 1000V. ② Insulation Resistance: 1000MΩ min. Contact Resistance:
HUMIDITY RESISTANCE	10	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 hour before the measurements are made: ①Temperature:-30±3°C ②Time:96 hours.	10mΩ Max. As shown in item 2~4.

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		PHGGD IDMION	MICH. CONDITIONS	PHOTI PHILIPING
	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	11	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:85±2°C ②Time:96 hours.	As shown in item 2~4.
HUMIDITY RESISTANCE	12	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:40±2°C ②Relative Humidity:90~95% ③Time:96 hours.	<pre>①Contact Resistance: 10 mΩ Max. ②Insulation Resistance: 1000MΩ min.</pre>
	13	The Salt Testing	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before the measurements are made: ①Temperature:35±2°C ②The ratio of salt-water:5% ③The spray amount of salt-water: 1~2 ml/h. ④ Time:48 hours.	The testing standard based on bubble, crack, And magnifying glass with gauge.