



PASX(with LED) SERIES SPECIFICATION	Document No	QW-1002	REV : G
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1. Style :

This specification describes “Snap-Acting Pushbutton 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. Current Range :

2.1 Silver Plating Standard :

Plating		Rating
C=Gold over silver	Fixed Terminal : Copper alloy with silver plated over gold plate.	bushing plastic material: 400mA @32VAC Max. 100mA @50VDC Max. 125mA @125VAC Max.
	Movable contact : Copper alloy with silver plated over gold plate.	bushing metal material: 500mA @48VAC Max. 200mA @50VDC Max. 200mA @250VAC Max.

3. Type of Actuation : Snap-Acting Pushbutton Switches.

4. Test Sequence :

ELECTRIC PERFORMANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	1	Visual Examination	By Visual Examination check without and out pressure & testing.	There shall be no defects that affect the serviceability of the product.
	2	Contact Resistance	To be measured between the two terminals associated with each switch pole.	50mΩ Max.
	3	Insulation Resistance	Measurements shall be made following application of 500 V/DC 100mA potential across terminals and cover for 1 minute.	1GΩ min/500V.
	4	Dielectric Withstanding Voltage	①1000 VAC(50Hz or 60Hz) shall be applied across terminals and cover for 1 minute.(for bushing plastic material) ②1500 VAC for bushing metal material.	There shall be no breakdown or flashover.



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	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
MECHANICAL PERFORMANCE	5	Actuation Force	MODEL-1305N MECHANICAL TEST 500gram、1000gram、2000gram. OFF TO ON Total Travel	①At for test the force. Force : 2N~5N. ②Total Travel : 1.5 mm±0.25 mm
	6	Operating Life	Measurements shall be made following the test forth below : ①Plastic Material : 100mA, 50VDC resistive load—gold over silver plated. ②Metal Material: 200mA, 50VDC resistive load—gold over silver plated ③Electronics Life Test : 500,000 cycles. ④Rate of Operation: 6-8 operation cycles per minute. ⑤Mechanical Life Test : 1,000,000 cycles.	①Electronics Life Test : As shown in item 3~4. ②Mechanical Life Test : As shown in item 2~4.
HUMIDITY RESISTANCE	7	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.	As shown in item 2~4.
	8	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±3°C. ②Time : 96 hours.	As shown in item 2~4.



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HUMIDITY RESISTANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	9	Resistance Humidity	<p>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 :</p> <p>①Temperature : 40±2°C. ②Relative Humidity : 90~95%. ③Time : 96 hours.</p>	<p>①Contact Resistance : 50mΩ Max. ②Insulation Resistance: 1GΩ min.</p>
	10	The Salt Testing	<p>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 :</p> <p>①Temperature : 35±2°C. ②The ratio of salt-water : 5%. ③The spray amount of salt-water : 1~2 ml/h. ④Time : 48 hours.</p>	The testing standard based on bubble, crack, and magnifying glass with gauge.
	11	HSF	<p>Refer RoHS Standard : The electronic electrical machinery product limits with six big chemical materials.</p>	<p>Cd : 100ppm Pb : 1000ppm Hg : 1000ppm Cr6+ : 1000ppm PBB、PBDE : 1000ppm</p>
	12	Test of IP 67	<p>Upper side : Protected against the effects of temporary immersion in water. (1m below the surface of the water for a duration of 30 min)</p>	<p>IP67 According to EN 60529 : 1991+A1 : 2000 IEC 60529 : 2001</p>



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SOLDER HEAT RESISTANCE	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	14	Wave Soldering	<p>■ Wave Soldering :</p> <p>①Soldering Temperature:260±5°C.</p> <p>②Duration of Solder Immersion: 5 ±1 seconds.</p> <p>Temperature Profile</p> <p>③PCB is 1.6mm in thicknes.</p>	<p>①Shall be free from pronounced backlash and falling-off or breakage terminals.</p> <p>②As shown in item 2~4.</p>
15	Manual Soldering	<p>■ Manual Soldering :</p> <p>①Soldering Temperature : 350°Cmax.</p> <p>②Duration of Solder Heated : Max 5 seconds.</p> <p>■ Precautions in Handling</p> <p>①Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.</p> <p>②Except for washable type do not wash the switch.</p> <p>③Please make sure that there is no flux rose over the surface of the PCB.</p>	<p>①Shall be free from pronounced backlash and falling-off or breakage terminals.</p> <p>②As shown in item 2~4.</p>	



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5. WITH LED ELECTRO-OPTICAL DATA:

Model No.	Lens Appearance	Color	Electro-optical Data (AT 20mA)				Peak Wavelength	Viewing Angle 2θ 1/2 (deg)	
			Vf (V)		Iv (mcd)				
			Typ.	Max.	Typ.	Min.			
PAS6 & PAS7	Water Clear	Super White	2.8	3.3	200	100	X / Y=0.27	35°	
		Super Red	2.0	2.5	700	200	645		
		Yellow	2.1	2.6	100	55	589		
		Green	2.2	2.7	130	70	565		
		Super Blue	3.1	3.6	580	250	460		
		Super Yellow (Super Green)	Y	2	2.6	475	210		590
			G	2	2.6	210	140		570
		Super Yellow (Super Blue)	Y	2.1	2.6	200	94		590
			B	3.2	3.6	200	94		460
		Super Yellow (Super Red)	Y	2.1	2.6	100	63		590
			R	2	2.6	90	42		630
		Super Red (Super Green)	R	2	2.6	90	42		630
			G	2.0	2.6	90	42		570
		Super Red (Super Blue)	R	2	2.6	90	42		630
B	3.2		3.6	200	94	460			
Super Green (Super Blue)	G	2.0	2.6	100	42	570			
	B	3.2	3.6	200	94	460			