

TEL:(02) 8261-0858

DWG NO : M-B2PL-20

6-Ø1.2

M-B2PL-20

SWITCH

10~100mm ABOVE 100mm

ANGLE

 \triangle

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 \wedge

SYM DATE

DIMENSION BELOW 10mm

DESCRIPTION

SKIAGRAPHY :

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UNIT :

REV.

mm

HUAI YANG CO., LTD. SPECIFICATIONS OF M SERIES <u>PUSH BUTTON SWITCHES</u>

1. POLE - POSITION : 1P2T, 2P2T, 4P2T, MOMENTARY AND LOCK TYPE ARE AVAILABLE.

2. OPERATING TEMPERATURE RANGE : -20° C ~ 70° C

3. RATING : 30V DC 1A

4. ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA		
4-1	CONTACT	DC 1.5V 100mA, BY METHOD OF	$50 \text{ m}\Omega$ MAX.		
	RESISTANCE	VOLTAGE DROP.			
4-2	INSULATION	DC 500V	100 M Ω MIN.		
	RESISTANCE				
4-3	DIELECTRIC	AC 500V FOR 1 MINUTE	BREAKDOWN		
	STRENGTH		IS NOT		
			ALLOWABLE		

5. MECHANICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
5-1	OPERATING	1P2T	200±150gf
	FORCE	2P2T	300±150gf
		4P2T	300±150gf
5-2	TRAVEL	LOCK TRAVEL	$2.5 \pm 0.3 \text{ mm}$
5-3	TIMING	NON-SHORTING TYPE	
5-4	ROBUSTNESS	ANY DIRECTION TO APPLY	TERMINAL COULD BE
	OF TERMINAL	A STATIC LOAD 500gf AT	BENT BUT LOOSENED
		END OF TERMINAL FOR 1	TERMINAL OR BOARD
		MINUTE. ONCE FOR A	BROKEN IS NOT
		TERMINAL ONLY.	ALLOWABLE.
5-5	ROBUSTNESS	ALONG OPERATING	ACTUATOR BROKEN,
	OF ACTUATOR	DIRECTION TO APPLY A	DEFORMED OR ANY
		STATIC LOAD 5 Kgf AT END	UNSUAL APPEARANCE
		OF ACTUATOR FOR 1	OCCURRED ON
		MINUTE.	SWITCH

				CONSTRUCTION IS			
				NOT ALLOWABLE.			
5-6	SOLDERABILITY	260±5℃	IN 3 SECONDS	SOLDER COVERA			
				75% Min.			

6. RESISTANCE OF SOLDERING HEAT
6-1 MANUAL SOLDERING : 300°C IN 3 SECONDS.
6-2 DIP SOLDERING : 260°C IN 3 SECONDS.

7. OPERATING LIFE WITHOUT LOAD AFTER 10,000 CYCLES 7-1 CONTACT RESISTANCE : $100 \text{ m}\Omega$ MAX. 7-2 OPERATING FORCE : WITHIN THE RANGE ±30% OF SPECIFICATION. 7-3 INSULATION RESISTANCE : $500V \text{ DC} 100M\Omega$ MIN.

7-4 DIELECTRIC STRENGTH : 500V AC FOR 1 MINUTE, BREAKDOWN IS NOT ALLOWABLE.

0. L	3. ENVIRONMENTAL PERFORMANCE										
	ITEM	TEST CONDITIONS	CRITERIA								
8-1	COLD	-20±2℃ FOR 96 HOURS	1. IT SHOULD MEET								
			REQUIREMENTS OF								
			ITEM 4.								
			2. MECHANINCAL								
			PERFORMANCE								
			SHOULD REMAIN TO								
			NORMAL.								
8-2	DRY HEAT	70±2°C FOR 96 HOURS	1. CONTACT								
			RESISTANCE								
			SHALL BE LESS								
			THAN 100 m Ω .								
			2. IT HAS TO MEET								
			THE								
			REQUIREMENTS OF								
			4-2 AND 4-3.								
			3. MECHANICAL								
			PERFORMANCE								
			SHOULD REMAIN								

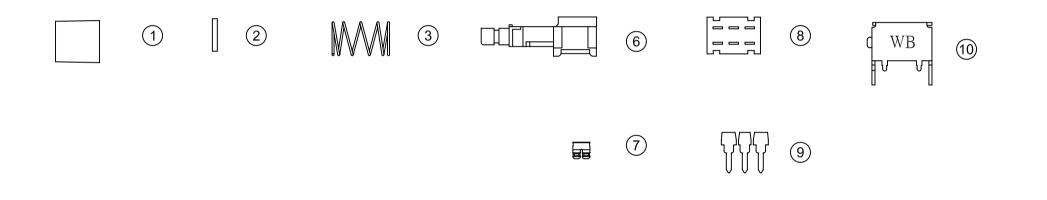
8. ENVIRONMENTAL PERFORMANCE

							TO NORMAL.
8-3	DAMP HEAT	40°C ±2°C	90% ~	95%RH	FOR	96 1.	CONTACT
		HOURS					RESISTANCE
							SHALL BE LESS
							THAN 100 m Ω .
						2.	INSULATION
							RESISTANCE
							SHOULD BE
							HIGHER THAN 10 M
							Ω.
						3.	DIELECTRIC
							STRENGTH SHOULD
							MEET THE
							REQUIREMENTS OF
							4-3.
						4.	MECHANICAL
							PERFORMANCE
							SHOULD REMAIN
							TO NORMAL.

DIMENSION	TOLERANCE				
BELOW 10 mm	<u>+</u> 0.3				
10~100 mm	± 0.5				
ABOVE 100 mm	± 0.8				
ANGLE	± 3°				







					[NO.	PART NAME		QTY	MATERIAL		SPECIAL DEAL		RoHS REPORT №.			
					-					KNOB		1	PA66		BLACK		REFERENCE APPENDIX (BASF REPORT)
											PPER	1	STEEL PLATE		NICKEL PLATING		CE/2004/B3095
					3	SPRING		1	STAINLESS STEEL	EL	L		F690101/LF-CTS031176				
V V V -				4	SPRING PLAT	SPRING PLATE 1 PHOSPHOR BRONZE				CE/2004/63192							
					5	LOCK PIN	1 PHOSPHOR BRONZE WIRE				CE/2004/B4129						
			6 ACTUATOR			1	РОМ	1 YELLOW			CE/2004/B5428A ; CE/2005/91875						
			7	CLIP		2	PHOSPHOR BRC	DNZE	SILVER CLAD		CE/2005/95608A						
						8	TERMINAL BO	DARD	1	P+CARBAMIDE		COFFEE		CE/2005/21653			
						9	TERMINAL		6	BRASS		SILVER PLATING	6	CE/2005/82737 ; GZSCR050423350/LP			
						10	FRAME		1	STEEL PLATE		TIN PLATING		SZTY050514737-LP			
				DATE	2007/01/23	UN	ит	mr	m	MODE	PUSH E	BUTTON SWITCH					
	APPROVAL KAVE			KAVEN	sc	ALE	1:	1	PART	M-B2PL-20		HUAI YANG CO., LTD.					
			CONFIRM REBECCA		VI	EW	⊕ ŧ	\square	2D FILE NAME		M-B2PL-20		TEL:(02) 8261-0858				
DATE APPROVAL DESIGN ENGINEERING CHANGE DESCRIPTION		DESIGN	GN LISHISONG		R.	01		3D FILE NAME									

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