

WELL BUYING INDUSTRIAL CO., LTD

APPROVAL SHEET

DESCRIPTION: ROTARY SWITCH

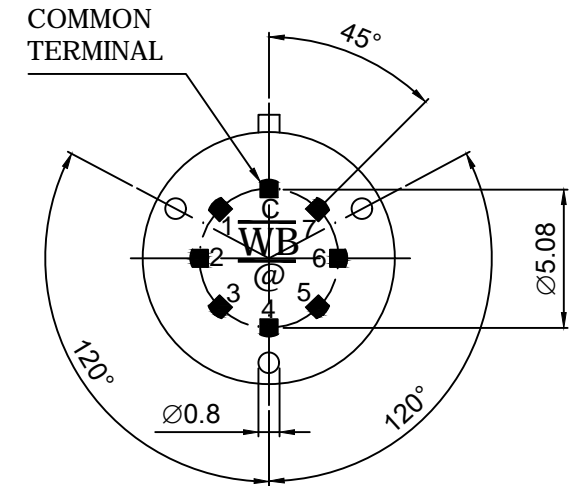
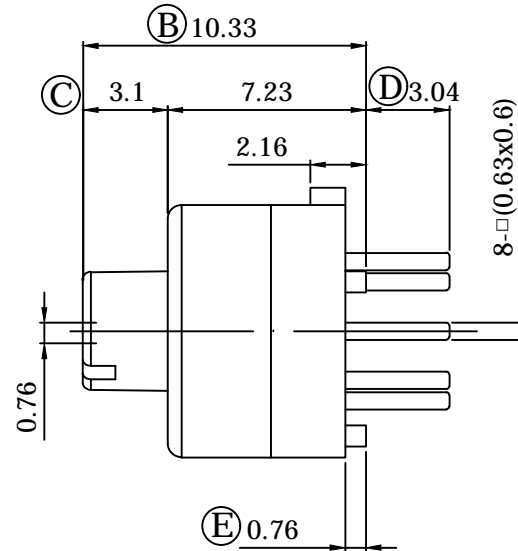
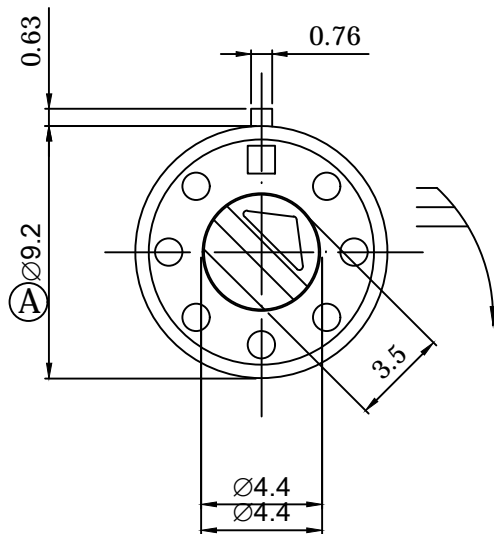
PART NO: MR - 13 - AC8

CUSTOMER: 奎艾特	CUSTOMER'S PART NO: _____
CUSTOMER SIGNATURE	COMMENTS



APPROVAL	REVIEW	PREPARE
<i>Kaven</i>	<i>Tereance</i>	<i>Gina</i>

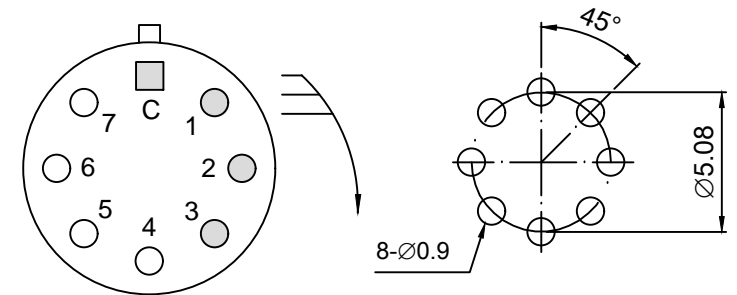
DIMENSION	TOLERANCE
BELOW 10 mm	± 0.3
10~100 mm	± 0.5
ABOVE 100 mm	± 0.8
ANGLE	± 3°



1. RATING : 0.5A 24V AC 0.2A 48V AC .
2. CONTACT RESISTANCE : 100 mΩ MAX.
3. INSULATION RESISTANCE : 500 V DC , 1000 MΩ MIN .
4. ROTATIONAL TORQUE : 400 ± 250 gf .
5. OPERATING LIFE : 10,000 CYCLES .
6. OPERATING TEMPERATURE RANGE : -40°C ~ 85°C .
7. CRITICAL DIMENSIONS 'A' ~ 'E'

SCHEMATIC

TRAVEL	SWITCHING POSITION
0°	C-C(OFF)
45°	C - 1
90°	C - 2
135°	C - 3
180°	OFF
225°	OFF
270°	OFF
315°	OFF



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△					DATE	2018/10/9	UNIT	mm	MODE	ROTARY SWITCH
△					APPROVAL	KAVEN	SCALE	1 : 1	PART	MR-13-AC8
△					CONFIRM	TEREANCE	VIEW	⌀	2D FILE NAME	MR-13-AC8
	DATE	APPROVAL	DESIGN	ENGINEERING CHANGE DESCRIPTION	DESIGN	HJ	VER.	01	3D FILE NAME	

WELL BUYING INDUSTRIAL CO., LTD.
SPECIFICATIONS OF MR SERIES
ROTARY SWITCH

1. POLE - POSITION : 1P2T , 1P3T , 1P4T , 1P5T , 1P6T , 1P7T (STOP LESS) ARE AVAILABLE
2. OPERATING TEMPERATURE RANGE : -40°C ~ 85°C
3. RATING : 0.5A 24V DC , 0.2A 48V DC

4. ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
4-1	CONTACT RESISTANCE	DC 1.5V 100 mA , BY METHOD OF VOLTAGE DROP	2 Ω MAX.
4-2	INSULATION RESISTANCE	DC 500V	100 MΩ MIN.
4-3	DIELECTRIC STRENGTH	AC 500V FOR 1 MINUTE	BREAKDOWN IS NOT ALLOWABLE

5. MECHANICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
5-1	ROTATIONAL TORQUE	APPLY A STATIC LOAD TO ROTATE SWITCH SHAFT	1. 400 ± 250 gf 2. 230 ± 100 gf
5-2	ROBUSTNESS OF HOUSING	1. TO APPLY OPPOSITE FORCES ON BASE FRAME AND HOUSING UNTIL THEY ARE PARTED 2. TO HOLD THE HOUSING HORIZONTALLY AND APPLY A FORCE VERTICALLY TO PUSH THE BASE FRAME UNTIL THEY ARE PARTED	1. 2 Kgf MIN. 2. 2 Kgf MIN.
5-3	ROBUSTNESS OF SHAFT	A STATIC LOAD OF 2 Kgf IS ADDED ON THE TOP OF THE SHAFT VERTICALLY DOWNWARD TO THE SWITCH FOR 1 MINUTE	ANY IRREGULAR ON MECHANICAL AND ELECTRICAL PERFORMANCE IS NOT ALLOWABLE
5-4	ROBUSTNESS OF TERMINAL	ALONG TERMINAL DIRECTION TO APPLY A FORCE TO THE TOP OF IT UNTIL IT COMES OFF FROM BASE FRAME	500 gf MIN.

5-5	SOLDERABILITY	260±5°C IN 3 SECONDS	75% MIN.
5-6	HEAT RESISTANCE	1. 250±5°C FOR MANUAL SOLDERING 2. 260±5°C FOR DIP SOLDERING	1. IN 5 SECONDS 2. IN 3 SECONDS

6. OPERATING LIFE WITHOUT LOAD AFTER 2,000 CYCLES

6-1 CONTACT RESISTANCE : 5 Ω MAX.

6-2 ROTATIONAL TORQUE : WITHIN ±30% OF THE SPECIFICATION WILL
BE ACCEPTABLE AS ITS LOWER LIMIT

6-3 INSULATION RESISTANCE : DC 100V 100 MΩ MIN.

6-4 DIELECTRIC STRENGTH : AC 500V FOR 1 MINUTE

7. ENVIRONMENTAL PERFORMANCE

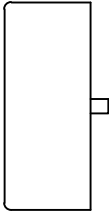
	ITEM	TEST CONDITIONS	CRITERIA
7-1	COLD	-40±2°C FOR 96 HOURS	1. IT SHOULD MEET THE REQUIREMENTS OF ITEM 4 2. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL
7-2	DRY HEAT	85±2°C FOR 96 HOURS	1. IT SHOULD MEET THE REQUIREMENTS OF ITEM 4 2. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL
7-3	DAMP HEAT	40°C±2°C 90% ~ 95%RH FOR 48 HOURS	1. IT SHOULD MEET THE REQUIREMENTS OF ITEM 4 2. MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL

8. PACKING AND SHIPPING:

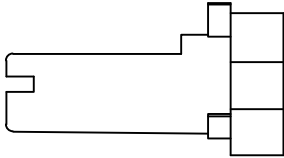
MR	189 PCS / 1 TRAY
	44 TRAY / 1 CTN
	8316 PCS/ 1 CTN
CARTON SIZE	44.2*36.2*29CM

DIMENSION	TOLERANCE
BELOW 10 mm	± 0.3
10~100 mm	± 0.5
ABOVE 100 mm	± 0.8
ANGLE	± 3°

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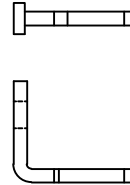
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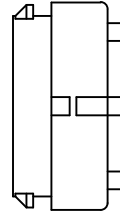
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NO.	PART NAME	QTY	MATERIAL	SPECIAL DEAL	RoHS REPORT No.
1	FRAME	1	PA66(70G33L)	BLACK	CE-2018-33904
2	SHAFT	1	PA66(70G43L)	BLACK	CE-2018-33904;CE-2017-C1212
3	SPRING	1	STAINLESS STEEL		F690101/LF-CTSAYGU18-00957
4	RIVET	1	BRASS	GOLD PLATING	CE-2017-C5232;CE/2017/93833
5	TERMINAL	7	BRASS	GOLD PLATING	CE-2017-C5232;CE/2017/93833
6	CIRCUIT TERMINAL	1	BRASS	GOLD PLATING	CE-2017-C5232;CE/2017/93833
7	BASE FRAME	1	PA6T	BLACK	CE-2018-10978

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△1					CONFIRM	TEREANCE	VIEW		2D FILE NAME	MR-13-AC8 MATERIALS LIST
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