



4B
Rocker Switches



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material See Page 77.

MECHANICAL LIFE: 50,000 make-and-break cycles.

CONTACT RESISTANCE: 20 mΩ max. initial @ 2-4VDC
100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 MΩ min.

DIELECTRIC STRENGTH: 1,000 Vrms min.@sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

MATERIALS

CASE & BUSHING: Glass filled nylon 4/6, flame retardant,
heat stablized (UL94v-0).

ACTUATOR: Nylon black std, internal O-ring seal standard witch all actuators.

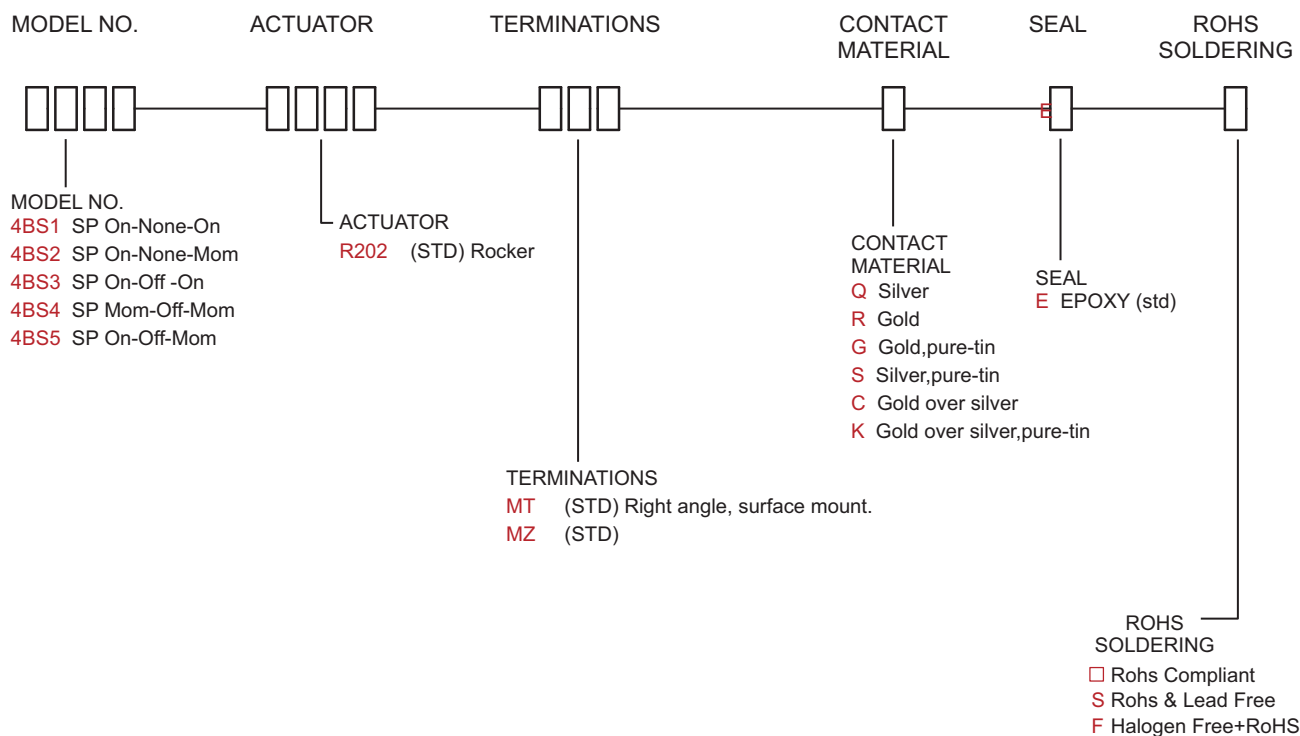
SWITCH SUPPORT: Brass, tin plated.

CONTACT / TERMINALS: Copper alloy, with Silver or gold plated.
(See Page 77)

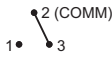
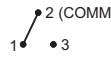


IP 67
ACCORDING TO
EN 60529:1989+A1:2001
IEC 60529:2001

HOW TO ORDER

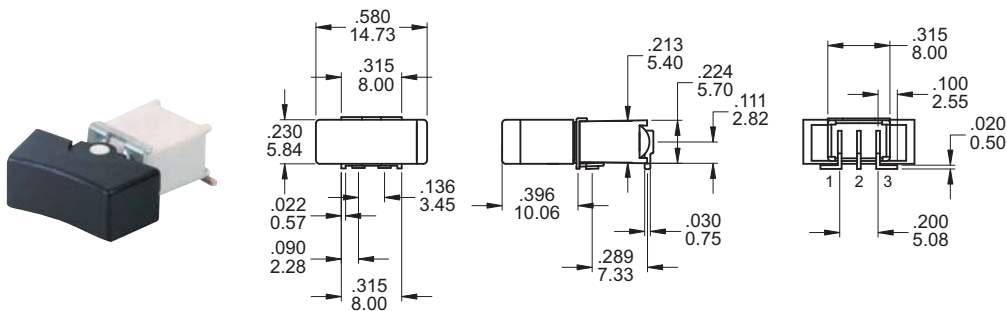


SWITCH FUNCTION

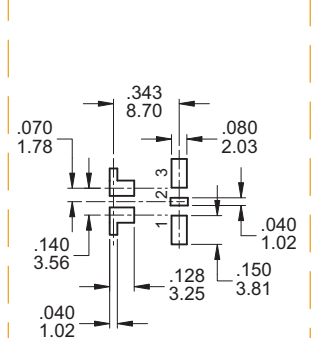
NO. POLES	UL-CSA	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
								
SP	Q24B11	4BS1	ON	NONE	ON	2 (COMM) 	N/A	2 (COMM) 
	Q24B12	4BS2	ON	NONE	MOM		OPEN	
	Q24B13	4BS3	ON	OFF	ON			
	Q24B14	4BS4	MOM	OFF	MOM			
	Q24B15	4BS5	ON	OFF	MOM			

POLE OPTIONS

MT



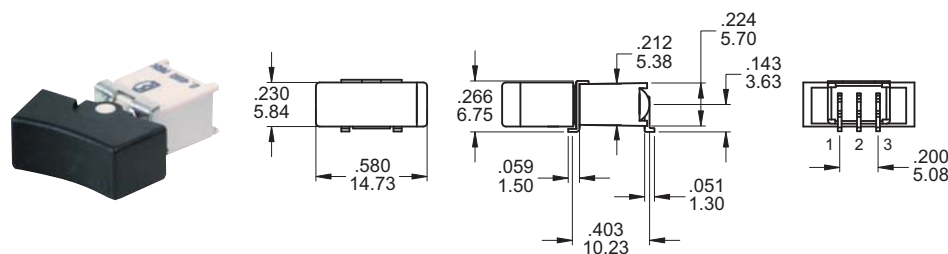
P.C. MOUNTING



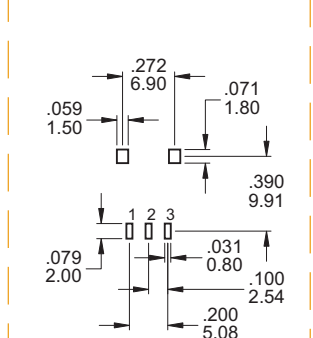
SPDT

Part No. Shown : 4BS1R202MTRE

MZ



P.C. MOUNTING



SPDT

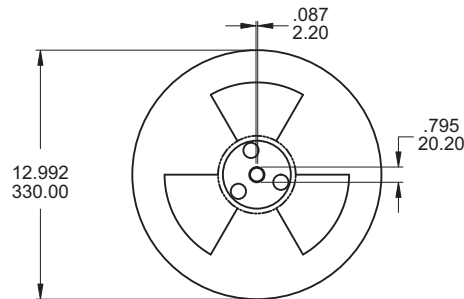
Part No. Shown : 4BS1R202MZRE

PACKAGING

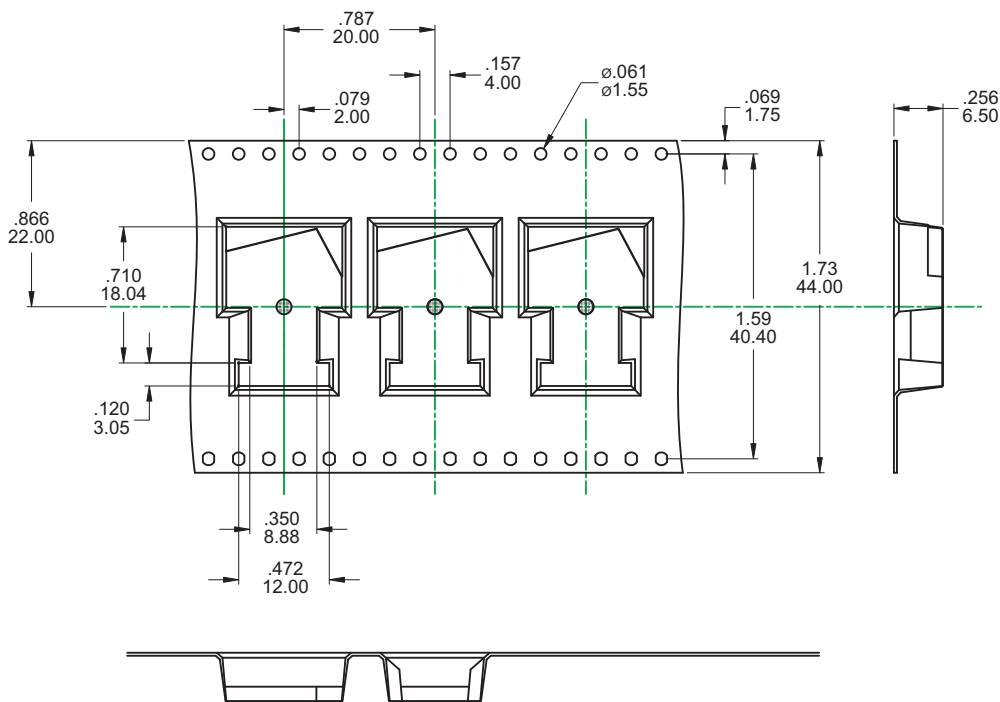
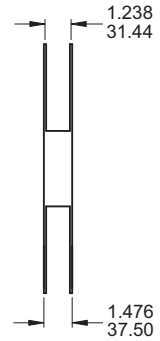
Switches available on embossed antistatic tape and reels.

Tape and cover strip are conductive for use near statically sensitive components.

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SCALE: 1



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REEL INFORMATION	
QUANTITY PER REEL	450 / pcs

CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
S		S = Gold flash over silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps (VA) max. @ 20V max. (AC or DC)
G		G = Gold,pure - tin	

SOLDERING PROCESSES

WAVE SOLDERING : Recommended Soldering Temperature : $260 \pm 5^{\circ}\text{C}$

Duration of Solder Immersion : Max 5sec.

(PCB is 1.6mm in thickness)

SOLDERING : Vapor phase & IR-reflow soldering can be applied.

Temperature Profile

Zone	Room Temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	$180^{\circ}\text{C} \sim 200^{\circ}\text{C}$	Min 150s
Peak (C)	$200^{\circ}\text{C} \sim 235^{\circ}\text{C}$	Min 30s
Peak (D)	$235^{\circ}\text{C} \sim 260^{\circ}\text{C}$	Min 40s
Peak (E)	260°C	Max 5s

