



KW1-103型微动开关系列 Micro switch series

◆ 安全可靠的中型开关 Safe, reliable basic switch

□ 结构紧凑, 具有微小触点间隙, 快速动作、高灵敏和微小动作行程特点。
Nice appearance, tight configuration. Characteristic: small contact gap, quick action, high sensitivity and small operating travel

□ 长寿命, 高可靠:
Long life, high reliability.

□ 接线端子种类齐全:
A variety of contact terminals

□ 动作力范围宽:
A variety of models with low operating force to high operating force are available

□ 多种温度等级:
A variety of temperature degree

□ 采用热固性或热塑性塑料:
Adopt thermosetting plastic or thermoplastic

□ 配备各种形式动臂: A variety of levers

□ 广泛应用于各种家用电器、电子设备、自动化设备、通讯设备、汽车电子、仪器仪表、电动工具等领域。
Widely used in home appliance, electronic equipment, automatic machine, communication equipment, car electron, apparatus and instrument electric motion tool etc.



◆ 技术特性 Specifications

项目 Item	特性值 Value	
工作速度 Operating speed	0.1mm~1m/s (与驱动方式有关) (Related with actuator forms)	
工作频率 Operating frequency	机械60次/min Mechanical 60 cycles/min; 电气25次/min Electrical 25 cycles/min;	
绝缘电阻 Insulation resistance	≥100MΩ (500VDC)	
接触电阻 Contact resistance	≤30MΩ (初始值) (Initial value)	
耐电压 Test voltage	同极不相接端子间 Between terminals of the same polarity	AC1000V, 50/60Hz, 1min
	带电子金属零件与地(外壳)之间、接线端与不带电金属件之间 Between current-carrying metal parts and ground(case), and between each terminal and non-current-carrying metal parts	AC3750V, 50/60Hz, 1min
抗振动 Vibration resistance	10~55Hz, 1.5mm双振幅 Double amplitude	
抗冲击 Shock resistance	破坏: 动作力 > 0.5N: 1000m/s² (约100G) max 动作力 ≤ 0.5N: 400m/s² (约40G) max 故障: 动作力 > 0.5N: 200m/s² (约20G) max 动作力 ≤ 0.5N: 100m/s² (约10G) max Destruction: OF > 0.5N: 1000m/s² (approx. 100G) max OF ≤ 0.5N: 400m/s² (approx. 40G) max Malfunction: OF > 0.5N: 200m/s² (approx. 20G) max OF ≤ 0.5N: 100m/s² (approx. 10G) max	
寿命 Life	机械 ≥ 1,000,000次; Mechanical ≥ 1,000,000 cycles 电气 ≥ 50,000次; Electrical ≥ 50,000 cycles	



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◆ 型号规格命名及含意 Model number legend and meanings

KW1-103 □-□□□□□

1 2 3 4 5 6

1	温度等级 Degrees of temperature	无标记 No mark:T85, 10T105 T:T125 H:T150 G:T200
2	额定值 Ratings	<p>KW1-103: 25(10):25(10)A250VAC 25:25(4)A250VAC 16:16(4)A250VAC/16A125VAC 10:10(3)A250VAC/10A125VAC 5:5(2)A250VAC/5A125VAC</p> <p>KW1-103T: 21:21(4)A250VAC 16:16(4)A250VAC/16A125VAC 10:10(3)A250VAC/10A125VAC</p> <p>KW1-103H: 10:10(3)A250VAC/10A125VAC 5:5(2)A250VAC/5A125VAC</p> <p>KW1-103G: 22:22A125VAC 10:10A125VAC 05:05A125VAC/0.1A30VDC, 1A30VDC 01:1A125VAC/0.1A30VDC, 1A30VDC</p>
3	接触形式 Circuit	Z:转换式 SPDT T:常开(按通)式 SPST-NO D:常开(按断)式 SPST-NC (见说明图 See illustration)
4	驱动形式 Actuator forms	<p>1:无动臂 No lever A2/2:短动臂 Short lever A3/3:中动臂 Middle lever A4/4:长动臂 Long lever A5/5:弧形动臂 Arc lever A6/6:短滚轮臂 Short roller A7/7:长滚动臂 Long roller A□/□非标准动臂 Not standard lever</p> <p>注:1) A表示动臂安装在靠近按钮位置,无字母A表示动臂安装在离按钮较远位置。 2) 表示非标准动臂的代号,详见动臂外形尺寸图。</p> <p>Note:1) A indicate the lever near to the plunger, no A indicate the lever far away from the plunger. 2) □ indicate not standard lever, details see outline dimension drawings.</p>
5	端子类型 Terminal type	<p>A:250快接端子 Quick-connect terminal B:焊接/快接#187共用端子(t=0.8mm) Solder/Quick-connect terminal#187 C:187快接端子(厚0.5mm) 187 quick-connect terminal(thick0.5mm) D:左侧面PCB端子 Left side PCB terminal</p> <p>E:螺孔端子 Screw terminal F:焊接端子 Solder terminal G:右侧面PCB端子 Right side PCB terminal Y 非标准端子 Not standard terminal</p>
6	动作(max) Operating force	<p>050:0.5N 100:1N 150:1.5N 200:2N 300:3N 400:4N</p> <p>注:若是非标准动作力,用此动作力上限值表示。 Note:if it is not standard operating force, indicate with the upper limit</p>



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◆ 接触形式说明书 Circuit illustration

公共端子类型 Common terminal types	转换式 SPDT	常闭式 SPST-NC	常开式 SPST-NO
公共端在底部 Bottom common terminal			
公共端在侧面 Side common terminal			

◆ 接线端尺寸 Terminal dimensions

端子种类 Terminal types	快接端子#250 ($t=0.8\text{mm}$) Quick-connect terminal#250	焊接/快接#187共用端子 ($t=0.8\text{mm}$) Solder/Quick-connect terminal#187	快接端子#187 ($t=0.5\text{mm}$) Quick-connect terminal#187
端子尺寸 Terminal dimensions	 	 	

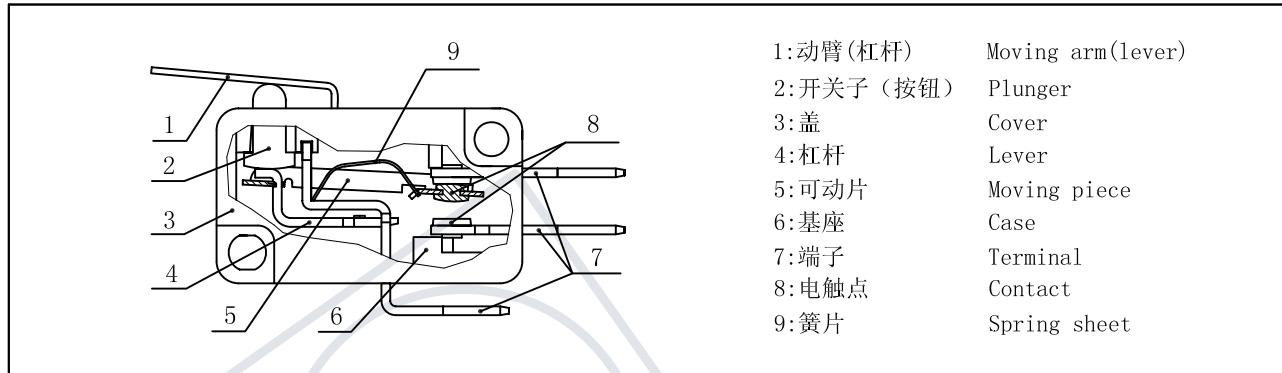
左侧面PCB端子 Left side PCB terminal	螺孔端子 Screw terminal	焊接端子 Solder terminal	右侧面PCB端子 Right side PCB terminal



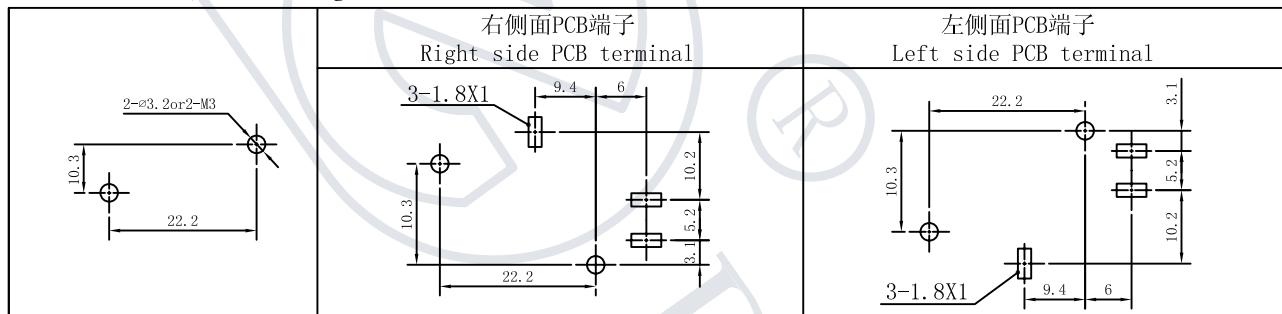
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◆ 内部构造图 Internal configuration drawing



◆ 安装孔尺寸 Mounting hole dimensions



◆ 外形尺寸和动作特性 Dimensions and operating characteristics

KW1-103□-□Z1A□		
KW1-103□-□Z2A□		



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◆ 外形尺寸和动作特性 Dimensions and operating characteristics

KW1-103□-□Z3A□		
KW1-103□-□Z4A□		
KW1-103□-□Z5A□		
KW1-103□-□Z6A□		



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◆ 外形尺寸和动作特性 Dimensions and operating characteristics

KW1-103□-□Z7A□		
KW1-103□-□Z10A□		
KW1-103-13		
KW1-103□-□Z11B□		



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◆ 外形尺寸和动作特性 Dimensions and operating characteristics

