

WS6型防水開關系列 Waterproof switch series

◆ 特點和用途 Characteristics and usage

- 通過橡膠密封圈和環氧樹脂填封達到穩定的密封性。可以在會淋水或多塵埃的地方使用。

To be stably sealed by sealed rubber ring and epoxy resin.
Can be used in wet or dusty places.

- 開關超行程在2mm以上

Switch over travel more than 2mm

- 滑動觸點的靜音構造

Mute structure of sliding contact

- 接線端子種類齊全，可配備各種導線。

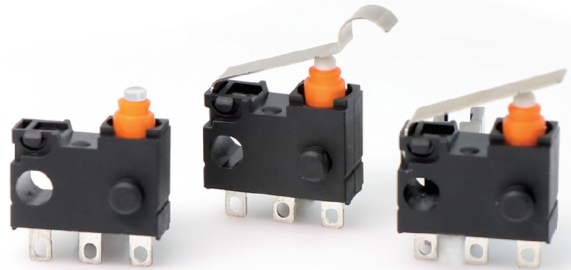
A variety of contact terminals, provide with variety kinds of wires.

- 配備各種形式動臂

A variety of levers

- 可在汽車、農業機械、大型家電、辦公設備等有耐環境性要求的場合使用。

It can be used in automobile, agricultural machinery, large home appliances, office equipment and other places which has environmental protection requirements.



◆ 技術特性 Technical Characteristics

項目 Item	特性值 Value
環境溫度 Environment temperature	-40 ~ +85°C
工作速度 Operating speed	30mm ~ 600mm/s (無動臂時no lever)
工作頻率 Operating Frequency	機械 60次/min; 電氣 25次/min Mechanical 60 cycles/min; electrical 25cycles/min
絕緣電阻 Insulation resistance	≥100MΩ (500VDC)
接觸電阻 Contact resistance	≤500mΩ
耐電壓 Test voltage	同極不相接端子間 Between terminals of the same polarity
	帶電金屬零件與地(外殼)之間、接線端與不帶電金屬件之間 Between current-carrying metal parts and ground(case), and between each terminal and non-current-carrying metal parts.
抗振動 Vibration resistance	10 ~ 55Hz, 1.5mm雙振幅 double amplitude
抗衝擊 Shock resistance	耐久endurance: 1000m/s ² (約100G approx.100G)max 誤動作Wrong action:300m/ s ² (約30G approx.30G)max
防觸電保護等級 Electric shock proof protection grade	I 級class
外殼防護等級 Degrees of protection provided by enclosure	IEC IP67 (端子型的端子部位除外Besides terminal part of terminal type) 或其它等級Or other grades
電氣壽命 Electrical Life	≥500,000次cycles (1mADC5V, 50mADC16V) ≥200,000次cycles (100mADC 30V)

◆ 型號規格命名及含義 Model number legend and meanings

WS6□-□ □ □-□ □ □-□ □-□
1 2 3 4 5 6 7 8 9 10

<p>1 溫度等級 Degree of temperature</p>	<p>無標記No mark: 40T85</p>	<p>6 動作力(max) Operating force</p>	<p>150: 1.5N 注: 若是非標準動作力, 用此動作力上限值表示。 Note: if it is not standard operating force, indicate with the upper limit.</p>
<p>2 額定值 Ratings</p>	<p>無標記No mark: 1mA 5VDC; 50 mA 16VDC; 100mA30VDC</p>	<p>7 安裝構造 Mounting construction</p>	<p>A:安裝孔Φ3標準型 Mounting holeΦ3 standard type C:左側面固定銷(僅限F端子) left side fixing pin (only F terminal) D:右側面固定銷(僅限F端子) right side fixing pin(only F terminal) E:左側面定位銷(僅限F端子) Left side dowel pin(only F terminal) F:右側面定位銷(僅限F端子) Right side dowel pin(only F terminal)</p>
<p>3 接觸形式 Circuit</p>	<p>Z:轉換式SPDT T:常開(按通)式SPST-NO D:常閉(按斷)式SPST-NC (見說明圖See illustration)</p>	<p>8 導線型端子的導線長度(毫米數) Wire length of wire type terminal (mm)</p>	<p>非導線型, 該位置空缺。 Vacant for non-wire type</p>
<p>4 驅動形式 Actuator forms</p>	<p>0:無動臂no lever 3:直動臂Straight lever 6:弧形動臂Arc lever □:非標準動臂not standard lever 注: 1) □ 表示非標準動臂的代號。 2) 若動臂為內安裝式, 則在動臂代號後加注字母N。 Note: 1) □ Indicate not standard lever. 2) If lever is amoundard inside, add letter "N" after the lever code.</p>	<p>9 防護等級 Degree protection provided by enclosure</p>	<p>無標記No mark: IP67</p>
<p>5 端子類型 Terminal types</p>	<p>F:焊接端子solder terminal P:PCB端子PCB terminal PL:左側面PCB端子Left side PCB terminal PR:右側面PCB端子Right side PCB terminal B:底部(向下)導線型Bottom (downward) wire type L:左面導線型(左右的定義見圖示) Left side wire type (definition of right and left is shown in diagram) R:右面導線型 Right side wire type Y:非標準端子not standard terminal</p>	<p>10 附加規格代號及導線顏色配置代號 Append specs code and wire color code</p>	<p>適用於apply to: 1) 當開關使用了非標準零件如非標準端子時; When used not standard parts such as not standard terminal. 2) 當顧客有特殊動作特性值或其它要求時; When customer has particular operatingvalue or other requirements. 3) 當導線顏色不是默認的配置顏色時。 When the wire color is not the default color. ■ 附加規格代號用兩位阿拉伯數字表示, 如01、02、03……在沒有附加規格編號時, 該位置空缺。 Additional spec number shows as 01, 02, 03……If there is no additional numbers, the place is vacant.</p>

微動開關系列
MICRO SWITCH SERIES

KW3A

KW4A

KW4A(S)

KW10

MS1

MS2

MS3

MS5

MS10

防水開關系列
WATERPROOF SWITCH SERIES

WS1

WS1L

WS2

WS3

WS4

WS5

WS6

WS7

電源開關系列
POWER SWITCH SERIES

KDC-A11

KDC-A04

PS4

PS5

PS6

RS1

RS2

RS3

其他開關系列
OTHER SWITCH SERIES

SP02

KXZ2

PRS1

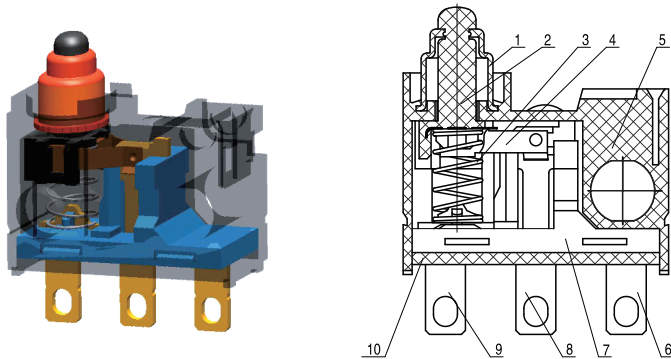
◆ 型號規格命名及含義 Model number legend and meanings

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微動開關系列 MICRO SWITCH SERIES	
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KW4A	
KW4A(S)	
KW10	
MS1	
MS2	
MS3	
MS5	
MS10	
防水開關系列 WATERPROOF SWITCH SERIES	
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WS1L	
WS2	
WS3	
WS4	
WS5	
WS6	
WS7	
電源開關系列 POWER SWITCH SERIES	
KDC-A11	
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RS2	
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其他開關系列 OTHER SWITCH SERIES	
SP02	
KXZ2	
PRS1	

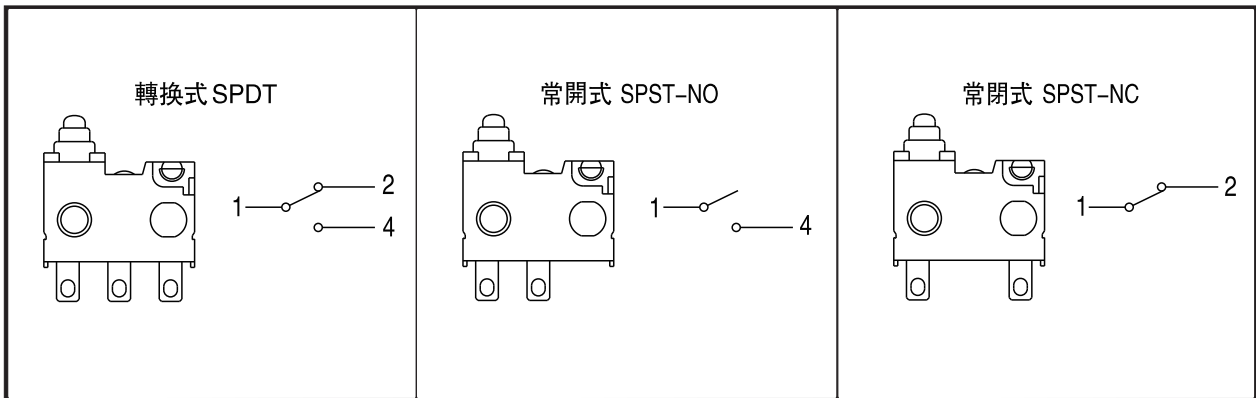
			<p>10</p> <p>附加規格代號及導線顏色配置代號 Append specs code and wire color code</p> <p>■ 導線顏色配置代號：用三個英文字母按COM、NC、NO順序表示；若是常開式或常閉式開關，空缺位置用字母O表示。 (顏色代號：紅-R、白-W、黑-B、綠-G、藍-L、黃-M、灰-H、紫-P)。 Wire color code: indicate with 3 letters, the order is COM、NC、NO; If NO or NC, vacant place shows O. (Color code: red-R, white-W, black-B, green-G, blue-L, yellow-Y, grey-H, purple-P) 示例example: BWR, BOR, RWO</p> <p>■ 若同時有附加規格代號和導線顏色配置代號，則導線顏色配置代號位於附加規格代號之後。 If there are append specs code and wire color code at the same time, then the wire color code should be after the append specs code. 示例example: 02BWR</p> <p>■ 導線型開關的引線顏色默認配置規定如下Wire color of wire type switch is as follows: 公共端引線COM: 黑色 Common terminal wire COM: Black 常閉端引線NC: 紅色 Normally closed terminal wire NC: Red 常開端引線NO: 白色 Normally opened terminal wire NO: white</p>
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◆ 內部構造圖 Internal configuration drawing

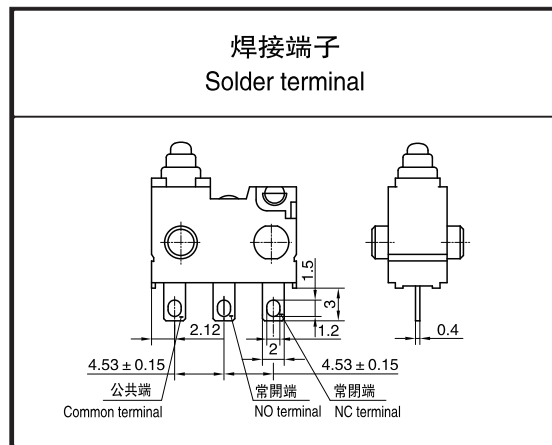


- | | |
|---------|---------------|
| 1 密封圈 | Hermetic loop |
| 2 按鈕 | Plunger |
| 3 彈簧 | Spring |
| 4 簧片 | Spring sheet |
| 5 外殼 | Base |
| 6 常閉端子 | Nc terminal |
| 7 底座 | Case |
| 8 常開端子 | No terminal |
| 9 支架 | Support |
| 10 環氧樹脂 | Epoxy resin |

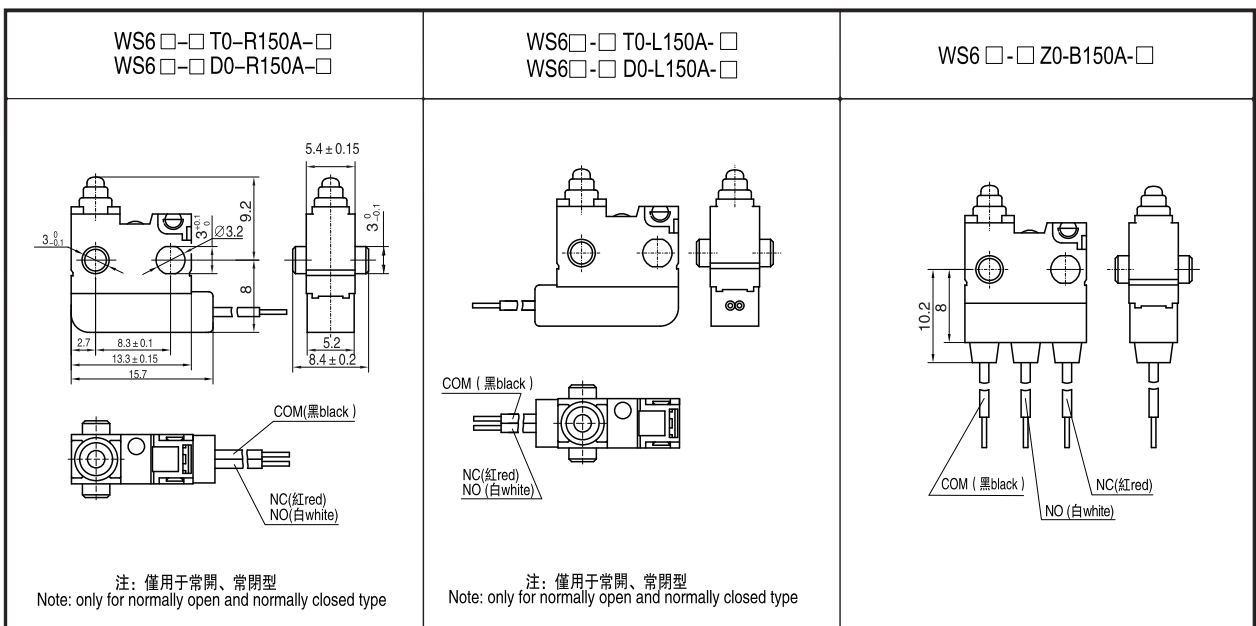
◆ 接觸形式說明圖 Circuit illustration



◆ 接綫端尺寸 Terminal dimensions



◆ 導綫型外形圖 Outline drawing of wire type



微動開關系列
MICRO SWITCH SERIES

- KW3A
- KW4A
- KW4A(S)
- KW10
- MS1
- MS2
- MS3
- MS5
- MS10

防水開關系列
WATERPROOF SWITCH SERIES

- WS1
- WS1L
- WS2
- WS3
- WS4
- WS5
- WS6
- WS7

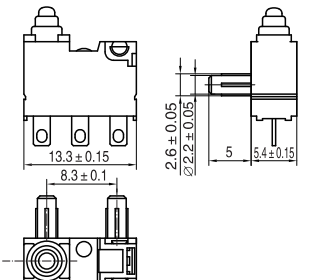
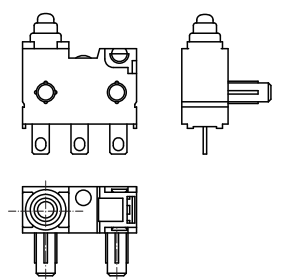
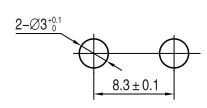
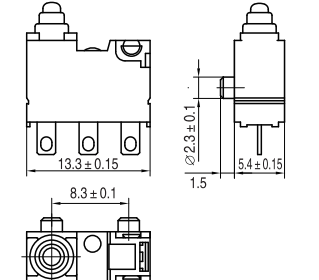
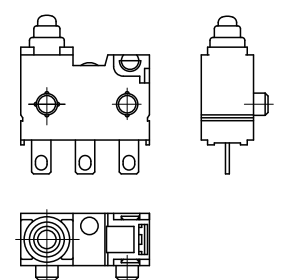
電源開關系列
POWER SWITCH SERIES

- KDC-A11
- KDC-A04
- PS4
- PS5
- PS6
- RS1
- RS2
- RS3

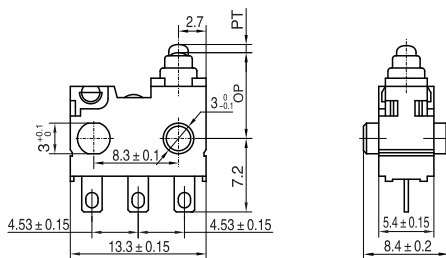
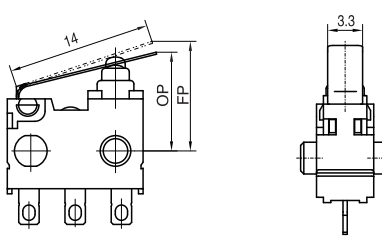
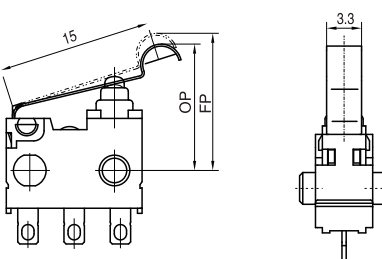
其他開關系列
OTHER SWITCH SERIES

- SP02
- KXZ2
- PRS1

◆ 外殼類型及安裝尺寸說明圖 Illustration of cover type and mounting dimension

左側面固定銷 Left side fixing pin	右側面固定銷 Right side fixing pin	標準型安裝孔尺寸 Mounting hole dimension
		
左側面定位銷 Left side dowel pin	右側面定位銷 Right side dowel pin	
		

◆ 外形尺寸和動作特性 Dimensions and operating characteristics

WS6	WS6-□Z0-F150A		<table border="1"> <thead> <tr> <th>型號 Model</th> <th>WS6-Z0-F150A</th> </tr> </thead> <tbody> <tr> <td>OF Max(N)</td> <td>1.5</td> </tr> <tr> <td>PT Max(mm)</td> <td>1.1</td> </tr> <tr> <td rowspan="3">NC側</td> <td>OP (mm)</td> <td>8.7 ± 0.3</td> </tr> <tr> <td>RP (mm)</td> <td>8.8 ± 0.3</td> </tr> <tr> <td>OT (mm)</td> <td>2.5</td> </tr> <tr> <td rowspan="3">NO側</td> <td>OP (mm)</td> <td>8.4 ± 0.3</td> </tr> <tr> <td>RP (mm)</td> <td>8.5 ± 0.3</td> </tr> <tr> <td>OT (mm)</td> <td>2.2</td> </tr> </tbody> </table>	型號 Model	WS6-Z0-F150A	OF Max(N)	1.5	PT Max(mm)	1.1	NC側	OP (mm)	8.7 ± 0.3	RP (mm)	8.8 ± 0.3	OT (mm)	2.5	NO側	OP (mm)	8.4 ± 0.3	RP (mm)	8.5 ± 0.3	OT (mm)	2.2
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