

**Features**

- Small size;
- Contact load capacity up to 40A;
- Quick connection type;
- Suitable for automation system and automobile auxiliary etc.

Ordering Information

<u>WM730</u>	<u>- 12</u>	<u>- A</u>	<u>- R</u>
1	2	3	4
1 Part number: WM730			
2 Coil rated Voltage(VDC): 6: 6V; 12: 12V; 24: 24V			
3 Contact Form: A: 1A; B: 1B; C: 1C			
4 Coil transient suppression: D: with diode.; R: with resistance; Nil: standard			

Contact Data

Contact Form	1A (SPSTNO), 1B (SPSTNC), 1C (SPDT(B-M))		
Contact Material	Ag Alloy		
Contact Rating (resistive)	1A	1B	1C
	40A/14VDC	30A/14VDC	NO: 40A/14VDC NC: 30A/14VDC
Max. Switching Voltage	75VDC		
Max. Switching Current	40		
Max. Switching Power	560W		
Contact Resistance or Voltage drop	≤100mΩ		
Electrical Life	1×10 ⁵ ops		
Mechanical Life	1×10 ⁷ ops		

Coil Parameter

Dash numbers	Coil voltage (VDC)		Coil resistance Ω±10%	Pickup voltage VDC (Max.)	Release voltage VDC(Min.)	Coil power	Operate Time	Release Time *See notes
	Rated	Max.						
006-1800	6V	7.8V	22.5	3.9V	0.6V	1.6W	≤10 ms	≤10 ms *1)
012-1800	12V	15.6V	90	7.8V	1.2V			
024-1800	24V	31.2V	360	15.6V	2.4V		≤15 ms	≤15 ms *2)

Notes: *1) With resistance + 5ms; With diode + 10ms

*2) With diode + 10ms

Operation condition

Insulation Resistance		100MΩ Min. (at 500VDC)
Dielectric Strength	Between Contacts	50Hz 500VAC / 1 minute
	Between Coil and Contacts	50Hz 750VAC / 1 minute
Shock resistance		200m/s ² 11ms
Vibration resistance		10~40Hz double amplitude 1..27mm 40~70Hz 50m/s ² 70~100Hz double amplitude 0.5mm 100~500Hz 100m/s ²
Terminals strength		50N
Solderability		235℃±2℃ 3±0.5s
Ambient Temperature		-40℃ ~ +85℃
Relative Humidity		95% (at 45℃)
Weight(Approx.)		29g

Layout (Bottom views, Unit: mm)

Dimensions / Wiring diagram (Bottom views)

The technical drawings show the following dimensions and configurations:

- Dimensions (Top Views):** Max 28 (width), Max 25.5 (height), 11 (terminal height), 16.2 (terminal pitch), 5-2.8 (terminal width), and 5-0.8 (terminal offset).
- Dimensions (Terminal Layout):** 5-2.8×0.8 (terminal width), 16.2±0.2 (terminal pitch), 2.3±0.2 (coil height), and 7.8±0.2 (coil height).
- Wiring Diagrams (Bottom views):**
 - 1A:** Standard coil configuration with terminals 30, 85, 86, and 87.
 - 1B:** Coil with Resistance configuration with terminals 30, 85, 87a, and 86.
 - 1C:** Coil with Diode configuration with terminals 30, 85, 87a, 87, and 86.
- Terminal Layout (Bottom views):** Shows the physical arrangement of terminals 30, 85, 87a, 87, and 86 on the relay base.
- Coil Configurations:**
 - Coil: standard:** Shows the internal coil and switch mechanism.
 - Coil: with Resistance:** Shows the internal coil with a series resistor.
 - Coil: with Diode:** Shows the internal coil with a diode for protection.