

**Features**

- Very small size;
- Ambient temperature -40°C ~ +125°C;
- 2.8mm Quick connection type;
- Suitable for headlight 、 fuel pump and horn control etc.

**Ordering Information**

<u>WM733</u>	<u>- 12</u>	<u>- A</u>	<u>- R</u>	<u>XXX</u>
1	2	3	4	5
1 Part number: WM733				
2 Coil rated Voltage(VDC): 12: 12V; 24: 24V				
3 Contact Form: A: 1 Form A;				
4 Coil transient suppression: D: with diode.; R: with resistor; Nil: standard (without parallel components)				
5 Special: xxx: Customer special requirement; Nil: standard				

**Contact Data**

Contact Form	1A (SPSTNO)
Contact Material	Ag Alloy
Contact Rating (resistive)	20A/14VDC (at 23°C)
Max. Continuous Current	20A (at 23°C); 20A (at 125°C, 1h)
Max. Switching Current	100A inrush peak current
Max. Switching Power	280W
Contact Resistance or Voltage drop	≤100mΩ
Min. contact load	1A 6VDC
Electrical Life	1×10 <sup>5</sup> ops (2 sec ON/ 2 sec OFF)
Mechanical Life	1×10 <sup>6</sup> ops (300 ops/min)

**Coil Parameter**

Coil voltage (VDC)		. Coil resistance Ω±10%	Parallel resistance Ω±10%	Equivalent resistance Ω	Pickup Voltage VDC (Max.)	Release voltage VDC(Min.)	Coil Power	Operate Time	Release Time *See notes
Rate	Max								
12V	15.6V	155	--	--	7.2V	1.2V	0.95W	≤10 ms	≤10 ms *1)
12V	15.6V	155	1000	135	7.2V	1.2V	1.1W		
24V	31.2V	606	--	--	14.4V	2.4V	0.95W	≤15 ms	≤15 ms *2)
24V	31.2V	606	2700	495	14.4V	2.4V	1.1W		

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 500VAC / 1 minute
Shock resistance		1000m/s <sup>2</sup>
Vibration resistance		10Hz~1000Hz 19.8m/s <sup>2</sup>
Mechanical data		Cover retention (pull & push): 200N min.
		Terminal retention (pull & push): 100N min.
		Terminal resistance to bending (front and side): 10N min.
Termination		2.8mm QC type
Ambient Temperature		-40°C ~ +125°C
Relative Humidity		95% (at 45°C)
Weight(Approx.)		11g

### Layout (Bottom views, Unit: mm)

Dimensions / Wiring diagram (Bottom views)

**Terminal Layout (Bottom views)**

**Wiring diagram (Bottom views)**

- Coil: standard
- Coil: with Resistance
- Coil: with Diode