

# Automotive Relay

## Automotive Relays YD 620

L×W×H(mm):26.5×26.5×24.5(+14/16)



Plug in type

PCB type

### Features

- Miniature;
- Contact load capacity up to 40A;
- Terminal types as inserting;
- Sealed type available, only for without bracket version.

## Ordering Information

<u>YD620</u>	<u>- 12</u>	<u>- H</u>	<u>- B</u>	<u>R</u>	<u>P</u>	<u>S</u>
1	2	3	4	5	6	7
1 Part number: YD620						
2 Coil rated Voltage(VDC): 6: 6V; 12: 12V; 24: 24V						
3 Contact Form: H: 1H; B: 1B; Z: 1Z; U: 1U						
4 Cover: B: Mounted Bracket; M: Metal Bracket; Nil: w/o bracket; S: Skirt cover type with Metal Bracket(only plug in type);						
5 Coil transient suppression: D: with diode.; R: with resistance; Nil: standard						
6 Terminals: P: PCB type; Nil: plug in type						
7 Enclosure: S: Sealed; Nil: unsealed						

## Contact Data

Contact Form	1H (SPSTNO)、1B (SPSTNC)、1Z (SPDT(B-M))、1U (SPSTNODM)			
Contact Material	Ag Alloy			
Contact Rating (resistive)	1H	1B	1Z	1U
	40A/14VDC	30A/14VDC	NO: 40A/14VDC NC: 30A/14VDC	2×20A/14VDC
Max. Switching Voltage	75VDC			
Max. Switching Current	40A			
Max. Switching Power	560W			
Contact Resistance or Voltage drop	≤100mΩ			
Electrical Life	1×10 <sup>5</sup> times			
Mechanical Life	1×10 <sup>7</sup> times			

## Coil Parameter

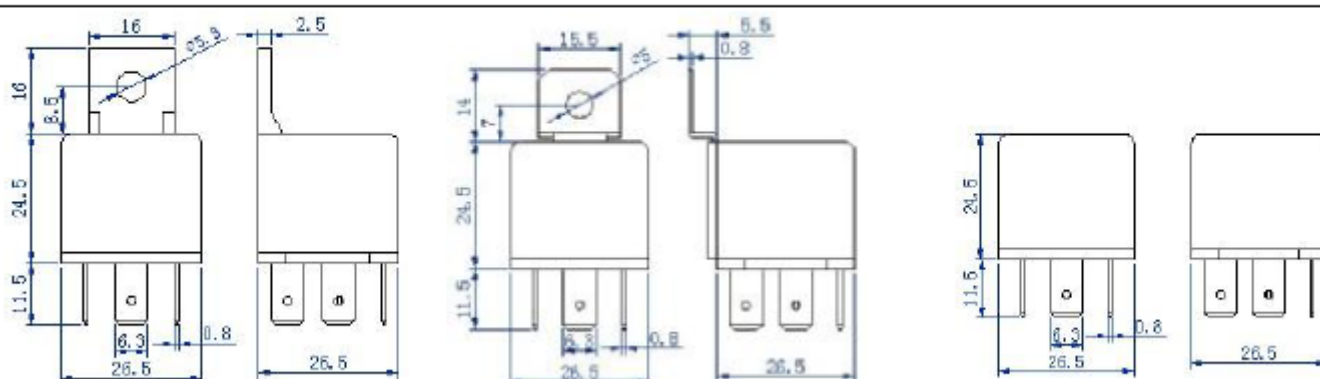
Dash numbers	Coil voltage		Coil resistance Ω±10%	Pickup voltage VDC(Max.)	Release voltage VDC(Min.)	Coil power	Operate Time	Release Time
	Rated	Max.						
6V	6V	7.8V	20	3.9V	0.6V	1.8W	≤7 ms	≤5 ms
12V	12V	15.6V	80	7.8V	1.2V			
24V	24V	31.2V	320	15.6V	2.4V			
48V	48V	62.4V	1280	31.2V	4.8V			

# 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		147m/s <sup>2</sup> 11ms
Vibration resistance		10~40Hz double amplitude 1.5mm
Terminals strength		100N 50N( for PCB type)
Solderability		235℃±2℃ 3±0.5s
Ambient Temperature		-40℃ ~ +85℃
Relative Humidity		85% (at 40℃)
Weight(Approx.)		28g, 30g(Insulation Bracket), 31g(Metal Bracket)

## Layout (Bottom views, Unit: mm)

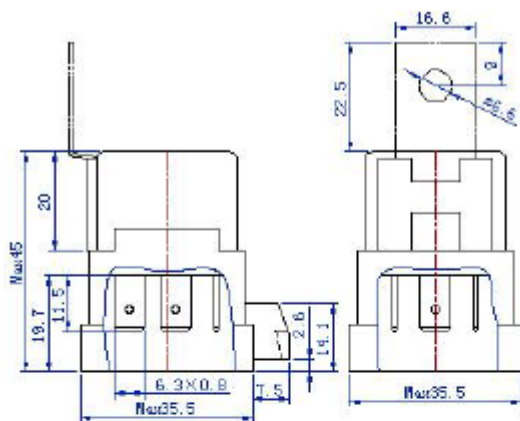
Dimensions / Wiring diagram (Bottom views)



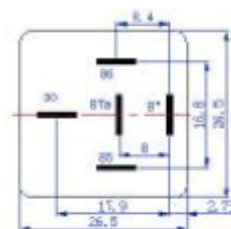
Mounted Bracket

Metal Bracket

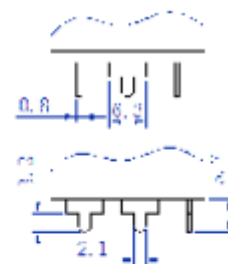
Standard



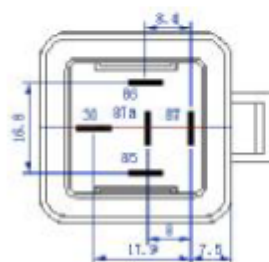
Skirt type with Metal Bracket (only plug in type)



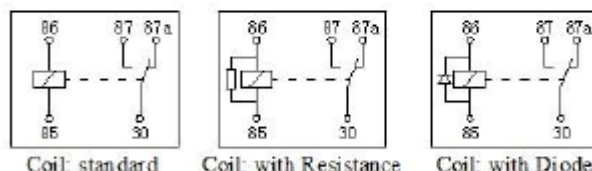
Terminal Layout (Bottom views)



PCB type



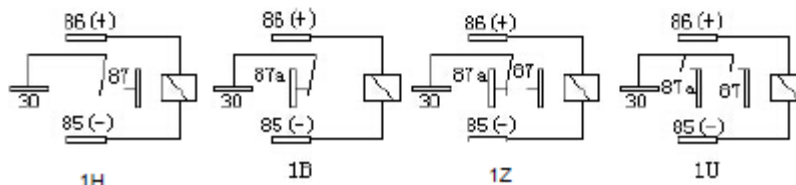
Terminal Layout (Skirt type)



Coil: standard

Coil: with Resistance

Coil: with Diode



1H

1B

1Z

1U

Wiring diagram (Bottom views)