



NVF4-7 NVF4-8
 $26.5 \times 26.5 \times 25.2$ $26.5 \times 26.5 \times 25.2(+16)$

NVF4-7&NVF4-8

Features

- Small size and light weight.
- Heavy contact load (70A).
- Suitable for automobile and lamp accessories application.
- PC board mounting and QC mounting available.

Ordering Information

<u>NVF4-7</u>	<u>A</u>	<u>Z - 70</u>	<u>b</u>	<u>DC12V</u>	<u>1.6</u>	<u>D</u>
1	2	3	4	5	6	7
						8

- 1 Part number: NVF4-7,NVF4-8(Plastic Bracket)
2 Contact arrangement: A:1A
3 Enclosure: Z: Dust protected
4 Contact rating: 50:50A; 70:70A
5 Terminals: b: PCB type; a:QC type

- 6 Coil rated voltage(V): DC:6,12,24
7 Coil power: 1.6:1.6W; 1.9:1.9W
8 Coil transient suppression: D:with diode
2D:with two diodes
R:with resistor
DR:with diode and resistor
NIL:standard

Contact Data

Contact Arrangement	1A(SPSTNO)	
Contact Material	AgSnO ₂	
Contact Rating	50A/14VDC(at 85°C),70A/14VDC	
Max. Switching Power	980W	
Max. Switching Voltage	50VDC	Max. Switching Current:70A
Voltage Drop(Initial)	Typ.: 50mV(at 10A)	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10 ⁵	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10 ⁷	Item 4.31 of IEC 61810-7

Coil Parameter

Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick-up voltage VDC(max) (60% of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
6	7.8	19	3.6	0.6	1.9	≤ 7	≤ 2
12	15.6	76	7.2	1.2			
24	31.2	303	14.4	2.4			
12	15.6	90	7.2	1.2	1.6		
24	31.2	360	14.4	2.4			

Notes: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

NVF4-7&NVF4-8

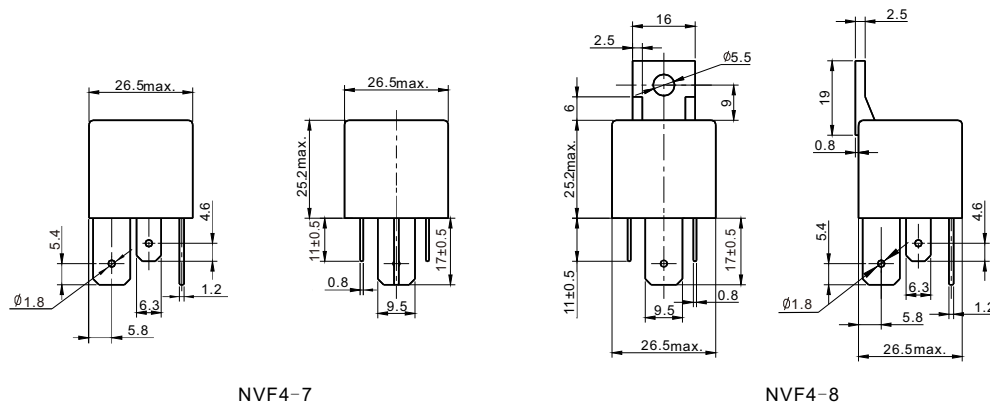
Characteristics

Insulation Resistance ¹⁾	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Open Contacts Between Contact and Coil	500VAC 1min 500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	30m/s ² 6ms	Item 4.26 of IEC 61810-7
Vibration Resistance	20Hz~500Hz Double amplitude 1.8mm	Item 4.28 of IEC 61810-7
Terminals Strength	Terminal retention(pull & push):≥100N Terminal resistance to bending(front & side):≥10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	36g(NVF4-7); 41g(NVF4-8)	Item 4.7 of IEC 61810-7

Notes: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

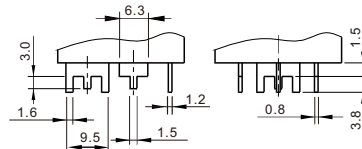
Dimensions

mm

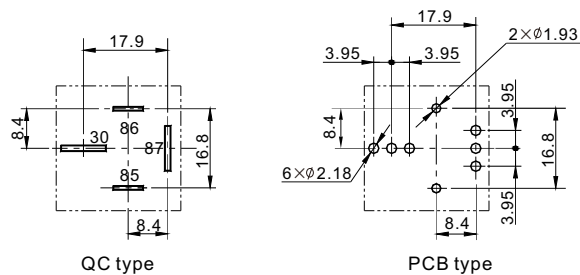


NVF4-7

NVF4-8



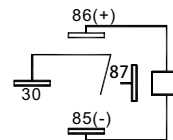
PCB type terminals
Dimensions



QC type

PCB type

Mounting (Bottom view)



Wiring diagram (Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm, tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.