

Pluggable 4-Position Relay Module

Relay Modules

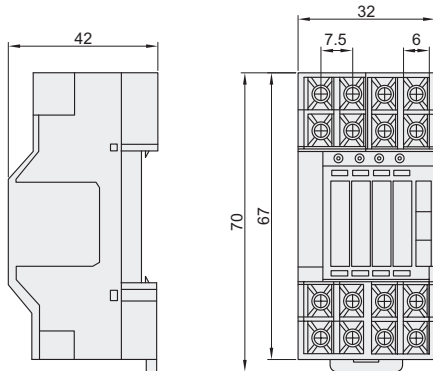
Code	Type
ZHM05	4-Position Relay Module Pluggable

CE

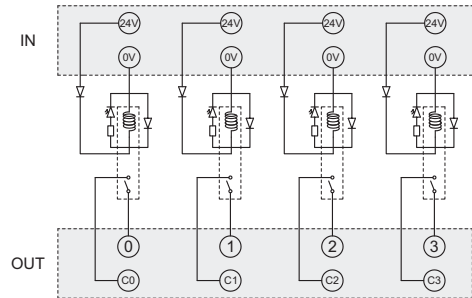


Features:

- Compact 4-position relay module;
- Using Omron G5NB series relays, high reliability, standard pluggable base, more convenient to replace the relay, Built-in coil surge suppression circuit to prolong contact life, with reverse protection device, clear LED action Indicator light, international standard DIN rail mounting base.



Wiring Diagram



Please order as shown

Part Number

Code

ZHM05

ZHM05

Applicable Terminal Reference

Input Side	Round or fork terminal, width less than 6CM	
Output Side		

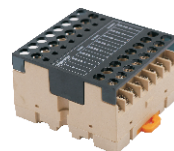
Performance Table

Input	Operating Coil (Each Point of Relay)		
	Rated Voltage		DC24V
	Rated Current		7.5mA
	Coil Resistance		3200Ω
	Operating Voltage		Above 70% of the Rated Voltage
	Reset Voltage		Below 5% of the Rated Voltage
	Maximum Permissible Voltage		120% of Rated Voltage
Rated Power Consumption		180MW	
Outout	Contacts (Each Point of the Relay)		
	Contact Specifications	Contact Structure	1NO
		Contact Material	Silver Nickel
		Contact Resistance (Initial)	30mΩ or Less (by DC6V 1A Voltage Drop Method)
		Rated Control Capacity (Resistive Load)	5A
		Rated Control Capacity (Inductive Load)	3A
		Maximum Allowable Power (Resistive Load)	1250VA, 150W
		Maximum Allowable Voltage	AC250V, DC110V
		Minimum Applicable Load (Reference Value)	DC100mV, 100μA
COM End	Maximum Allowable Current	5A	
Electrical Performance		Action Time	6ms
		Reset Time	3ms
Service Life		Mechanical Life (Rated Load)	More Than 2 Million Times (on-off Frequency 180 Times/Min)
		Electrical Life (Rated Load)	More Than 100,000 Times
Environment		Ambient Temperature	-40°C ~ +60°C
		Ambient Humidity	5% ~ 85%

Product Parameters

European Style Terminals	Main Material	PA 66V-0 Fire Rating	Certification	UL CE
	Terminal Material	Phosphor Bronze	Rated Current	10A
	Plating	Tinned	Torque	0.4NM(3.5lb-in)
Terminal Body	Main Material	PA 66V-0 Fire Rating	Certification	CE
	Cover Material	PC V-0 Fire Rating	Fixing Screw Material	SUS304
	Fasteners	PC V-0 Fire Rating	PCB Board Material	FR-4

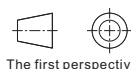
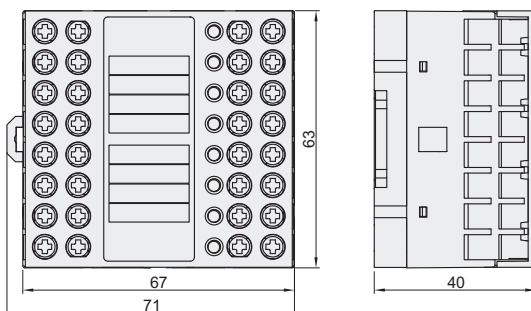
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Code	Type
ZHM08	8-Position Relay Module Pluggable

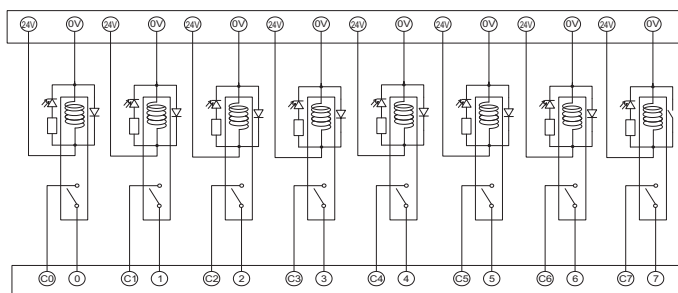
Features:

- Compact 8-position relay module;
- Using Omron G5NB series relays, high reliability, standard pluggable base, more convenient to replace the relay, Built-in coil surge suppression circuit to prolong contact life, with reverse protection device, clear LED action Indicator light, international standard DIN rail mounting base.



The first perspective

Wiring Diagram



Applicable Terminal Reference

Input Side	Round or fork terminals, width below 6CM
Output Side	Below 6CM



Please order as shown

Part Number
Code
ZHM08
ZHM08

Performance Table

Operating the Coil (Each Point of the Relay)			
Input	Rated Voltage		DC24V
	Rated Current		7.5mA
	Coil Resistance		3200Ω
	Operating Voltage		Above 70% of the rated voltage
	Reset Voltage		Below 5% of the rated voltage
	Maximum Allowable Voltage		120% of rated voltage
	Rated Power Consumption		180mW
Contacts (Each Point of the Relay)			
Output	Contact Specifications	Contact Structure	1NO
		Contact Material	Silver Nickel
		Contact Resistance (initial)	30mΩ or less (by DC6V 1A voltage drop method)
		Rated Control Ccapacity (Resistive Load)	5A
		Rated Control Capacity (Inductive Load)	3A
		Maximum Allowable Power (Resistive Load)	1250VA, 150W
		Maximum Allowable Voltage	AC250V, DC110V
		Minimum Applicable Load (Reference Value)	DC100mV, 100μA
		COM End	Maximum Allowable Current
	Electrical Performance		Action Time
		Reset Time	3ms
Service Life		Mechanical Life (Rated Load)	More than 2 million times (on-off frequency 180 times/min)
		Electrical Life (Rated Load)	More than 100000 times
Environment		Ambient Temperature	-40°C ~ +60°C
		Ambient Humidity	5% ~ 85%

Product Parameters

European Style Terminals	Main Material	PA 66V-0 Fire Rating	Certification	UL, CE, RoHS
	Terminal Material	Phosphor Bronze	Rated Current	10A
	Plating	Tinned	Torque	0.4NM(3.5lb-in)
Terminal Body	Main Material	PA 66V-0 Fire Rating	Certification	CE
	Cover Material	PC V-0 Fire Rating	Fixing Screw Material	SUS304
	Fasteners	PC V-0 Fire Rating	PCB Board Material	FR-4

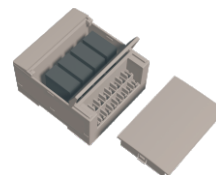
Wide Base Type, 4 Sets ▶

Power Relay Module

Relay Modules

Code	Type	
ZHM91	Wide Base Type,	4 Channels 1 Normally Open and 1 Normally Close
ZHM92	Power Relay Module	4 Channels 2 Normally Open and 2 Normally Close

CE



Features:

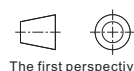
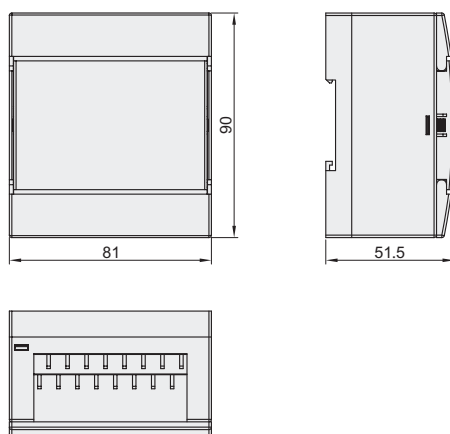
- The input/output side has a surge absorption circuit, which can effectively prolong the life of the relay contact and slow down the instantaneous impact current on the load side;
- Input side has miswiring protection;
- This series of terminal blocks are equipped with a relay base to facilitate maintenance and update and reduce maintenance costs.

Scope of Application:

- Applied to automation equipment, processing welding equipment and other industrial and agricultural equipment.

Precautions:

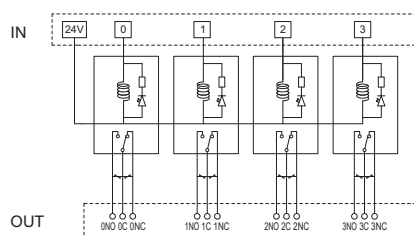
- Please confirm the load type and size before ordering, and choose the appropriate method to control.
- When connecting with PLC, necessarily use the corresponding dedicated cable.



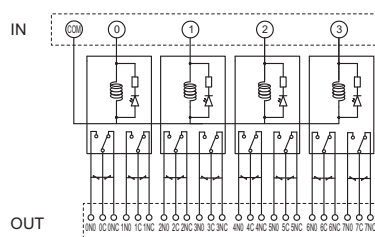
The first perspective

Wiring Diagram

ZHM91



ZHM92



Performance Table

Code		ZHM91	ZHM92
Contact Configuration		1C	2C
Contact Material		Silver Nickel	
Protection Level		IP40(Closed Type)	
Rated Control Capacity (Resistive Load)		12A 250V AC/12A 30V DC	8A 250V AC/8A 30V DC
Contact Resistance (Initial Value)		Below 50MΩ	
Start Time		Below 15ms	
Release Time		Below 10ms	
Withstand Voltage	Coil to Coil	5000V AC. 1 Minute	5000V AC. 1 Minute
	Between Homopolar Contacts	1000V AC. 1 Minute	1000V AC. 1 Minute
	Between Heteropolar Contacts	—	3000V AC. 1 Minute
Vibration Resistance	Durability	Frequency 10-55Hz Single Amplitude 0.75mm	
	Malfunction	Frequency 10-55Hz Single Amplitude 0.75mm	
Impact Resistance	Durability	1000m/s ²	
	Malfunction	NO Contact: 200m/s ³	
		NO Contact: 200m/s ²	
Electrical Service Life (Rated Load)		AC Load: More Than 200,000 Times (Switching Frequency: 1800 Times/Hour)	
		DC Load: More Than 10,000 Times (Switching Frequency: 1800 Times/Hour)	
Mechanical Service Life (No Load)		AC Load: More Than 30,000,000 Times (Switching Frequency: 1800 Times/Hour)	
		DC Load: More Than 50,000,000 Times (Switching Frequency: 1800 Times/Hour)	
Ambient Temperature		-40~+70℃ (No Freezing)	
Ambient Humidity		5-85% RH (No Condensation)	
Saving Ambient Temperature		-55~ +85℃	

Relay Modules

Wide Base Type, 4 Sets Power Relay Module

Product Parameters

European Style Terminals	Main Material	PA 66V-0 Fire Rating	Certification	
	Terminal Material	Phosphor Bronze	Rated Current	10A
	Plating	Tinned	Torque	0.4NM(3.5lb-in)
Terminal Body	Main Material	PA 66V-0 Fire Rating	Certification	CE
	Cover Material	PC V-0 Fire Rating	Fixing Screw Material	SUS304
	Fasteners	PC V-0 Fire Rating	PCB Board Material	FR-4

Part Number		Relay Module	Applicable Wire
Code	Specification		
ZHM91	41	4 Channels 1Normally Open and 1Normally Close	Below 1.5mm ² /AWG16 Stripping Length: 6mm
ZHM92	42	4 Channels 2Normally Open and 2Normally Close	



Part Number	
Code	Specification
ZHM91	41
ZHM92	42

ZHM91—41

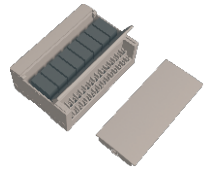
Wide Base Type, 8-Channels

Power Relay Module

Relay Modules

Code	Type	
ZHM93	Wide Base Type,	8 Channels 1 Normally Open and 1 Normally Close
ZHM94	Power Relay Module	8 Channels 2 Normally Open and 2 Normally Close

CE



Features:

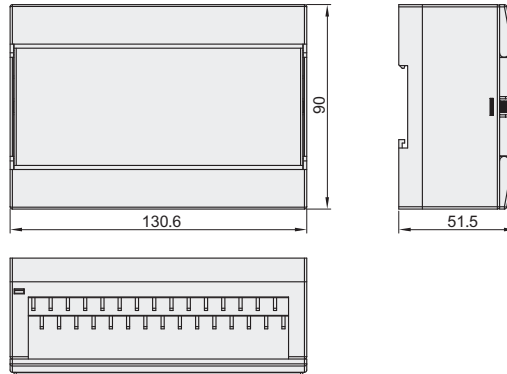
- The input/output side is equipped with a surge absorption circuit, which can effectively prolong the life of the relay contacts and reduce the Instantaneous inrush current on the slow load side;
- Input side has miswiring protection;
- This series of terminal blocks are equipped with a relay base to facilitate maintenance and update and reduce maintenance costs.

Scope of Application:

- Applied to automation equipment, processing welding equipment and other industrial and agricultural and equipment.

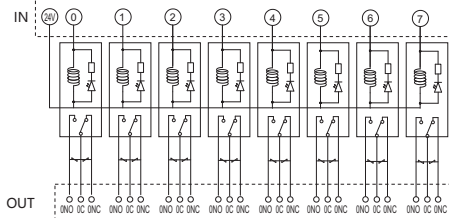
Precautions:

- Please confirm the load type and size before ordering, and choose the appropriate method to control;
- When connecting with PLC, necessarily use the corresponding dedicated cable.

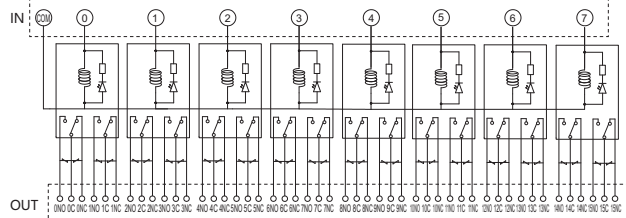


Wiring Diagram

ZHM93



ZHM94



Part Number	Relay Module	Applicable Wire
Code Spec.		
ZHM93 81	8 Channels 1 Open 1 Closed	Below 1.5mm ² /AWG16
ZHM94 82	8 Channels 2 Open 2 Closed	Stripping Length: 6mm



Part Number	Code	Spec.
ZHM93	81	
ZHM94	82	
ZHM93 — 81		

Product Parameters

European Style	Main Material	PA 66V-0 Fire Rating	Certification	UL CE
Terminals	Terminal Material	Phosphor Bronze	Rated Current	10A
Terminal Body	Plating	Tinned	Torque	0.4NM(3.5lb-in)
	Main Material	PA 66V-0 Fire Rating	Certification	CE
	Cover Material	PC V-0 Fire Rating	Fixing Screw Material	SUS304
	Fasteners	PC V-0 Fire Rating	PCB Board Material	FR-4

Performance Table

Code		ZHM93	ZHM94
Contact Configuration		1C	2C
Contact Material		Silver Nickel	
Protection Level		IP40(Closed Type)	
Rated Control Capacity (Resistive Load)		12A 250V AC/12A 30V DC	8A 250V AC/8A 30V DC
Contact Resistance (Initial Value)		Below 50MΩ	
Start Time		Below 15ms	
Release Time		Below 10ms	
Withstand Voltage	Coil to Coil	5000VAC. 1 Minute	5000VAC. 1 Minute
	Between Homopolar Contacts	1000VAC. 1 Minute	1000VAC. 1 Minute
	Between Heteropolar Contacts	—	3000VAC. 1 Minute
Vibration Resistance	Durability	Frequency 10-55Hz Single Amplitude 0.75mm	
	Malfunction	Frequency 10-55Hz Single Amplitude 0.75mm	
Impact Resistance	Durability	1000m/s ²	
	Malfunction	NO Contact: 200m/s ²	
		NO Contact: 200m/s ²	
Electrical Service Life (Rated Load)		AC Load: More Than 200,000 Times (Switching Frequency: 1800 Times/Hour)	
		DC Load: More Than 10,000 Times (Switching Frequency: 1800 Times/Hour)	
Mechanical Service Life (No Load)		AC Load: More Than 30,000,000 Times (Switching Frequency: 1800 Times/Hour)	
		DC Load: More Than 50,000,000 Times (Switching Frequency: 1800 Times/Hour)	
Ambient Temperature		-40~+70°C (No Freezing)	
Ambient Humidity		5-85% RH (No Condensation)	
Save Ambient Temperature		-55~+85°C	