RP-XXS-C-SERIES

SINGLE POLE RELAY MODULE WITH INPUT CABLE

PRIMUS



Relay Module



Relay Module with Switching Power Supply



Cable

Ex. Relay Module with Input Cable

Specification

MODEL	RP-03S -C	RP-04S -C	RP-05S -C	RP-03S -C-SW	RP-04S -C-SW	RP-05S -C-SW
Power Supply	24VDC ±10%			120-230 VAC 50-60Hz		
Output Switching Power Supply	None			24VDC 2.5A		
Rate Input Voltage	24DC +10%			-		
Rate Input Current	22mA +10%					
Turn On Time	15 ms					
Turn Off Time	5 ms					
Type and Number Of Contact	SPDT x 8 Relays	SPDT x 12 Relays	SPDT x 16 Relays	SPDT x 8 Relays	SPDT x 12 Relays	SPDT x 16 Relays
Rate Contact Voltage	250VAC/30VDC					
Rate Contact Current	10A					
Max. Switching Current	10A					
Terminals /Connectors Input	Wire Connectors 0.14 mm^2					
Terminals /Connectors Output	Terminal blocks 2.5 mm^2					
Operating Temperature	-10 to 50 °C					
Coil/Contact Isolation	5 k VAC/60 s					
Status Relay Display	LED					
Dip Switch Input NPN/PNP	Switch NPN PNP					
Relay Module Dimension (W x L x H) (mm.)	98 x 150 x 74	98 x 210 x 74	98 x 270 x 74	98 x 240 x 74	98 x 300 x74	98 x 360 x 74
Approximative Weight (kg.)	410	590	760	660	840	1,010

Description

- Single Pole Relay Module with Input Cable: RP-XXS-C-Series is a relay module with a built-in switching power supply. It consists of multiple relays integrated into a single unit and comes with an input cable (wired-out type) for convenient connection and use.
- There are two types:
  - Single Pole Relay Module with input voltage 24 VDC, NPN and PNP type (RP-XXS-C).
  - Single Pole Relay Module with built-in switching power supply (RP-XXS-C-SW).
- It has a built-in 24 VDC / 2.5 A / 70 W switching power supply for operation and for supplying external loads.
- It receives a supply voltage of 120–230 VAC (RP-XXS-C-SW).
- SPDT relay output rated at 250 VAC / 30 VDC, 10 A.
- Slim Relay Module is available with 8, 12, and 16 relay options.
- Wired-type cable input provides convenience and greatly reduces wiring and circuit modification work.
- It has a DIP switch to select the input type as NPN or PNP.
- It saves installation space in electrical cabinets, MDB panels and machine control panels.
- LEDs indicating the operating status of each relay.
- Din Rail Installation.

Operation

RP-XXS-C-Series is a Single Pole Relay Module with cable, consisting of multiple relays 8, 12, or 16 relays in a single unit, helping to save installation space. It is designed for DIN rail mounting and is suitable for installation in electrical cabinets and MDB panels. It features wired-type inputs, providing convenience and significantly reducing wiring work or circuit modifications.

RP-XXS-C-Series can be connected to PLC outputs or other devices. The input type can be selected as either PNP or NPN via a DIP switch to utilize the relay contacts. It has LEDs indicating the operating status of the relays. The inputs are provided as cables with connectors for wiring, helping to reduce wiring errors. It has output terminals for connecting 2.5 mm^2 electrical wires. It makes wiring and maintenance convenient in case of system abnormalities. It can withstand temperatures from -10 to 50°C. It includes a 24 VDC / 2.5 A / 70 W switching power supply for operation and for supplying external loads such as PLCs and other devices.

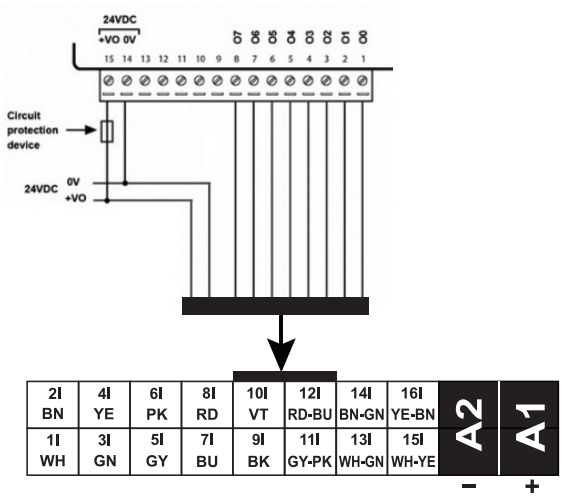
Wiring Diagram

Input table and color of cables.

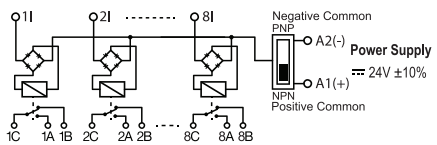
INPUT	COLOUR	NAME
1I	White	WH
2I	Brown	BN
3I	Green	GN
4I	Yellow	YE
5I	Grey	GY
6I	Pink	PK
7I	Blue	BU
8I	Red	RD
9I	Black	BK
10I	Violet	VT
11I	Grey-Pink	GY-PK
12I	Red-Blue	RD-BU
13I	White-Green	WH-GN
14I	Brown-Green	BN-GN
15I	White-Yellow	WH-YE
16I	Yellow-Brown	YE-BN
A2 (0V)	White-Grey	WH-GY
A2 (0V)	Grey-Blue	GY-BN
A1 (24V)	White-Pink	WH-PK
A1 (24V)	Pink-Brown	PK-BN



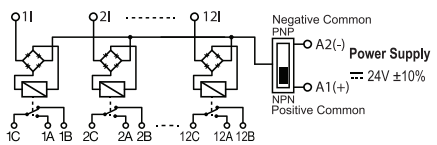
PLC
"Unitronics" SM35
Transistor Outputs
SM35/43/70-J-T20



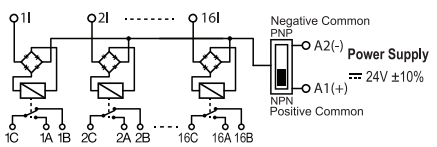
RP-03S-C



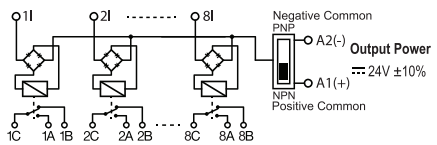
RP-04S-C



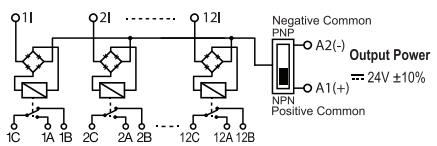
RP-05S-C



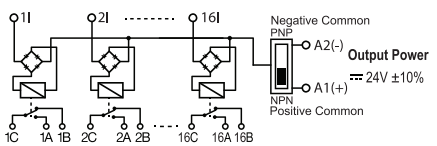
RP-03S-C-□-SW



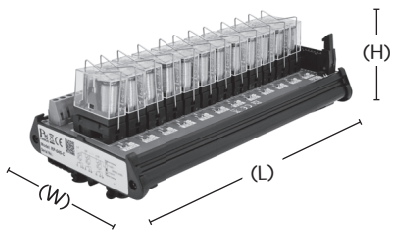
RP-04S-C-□-SW



RP-05S-C-□-SW



Dimension



Model	W (mm.)	L (mm.)	H (mm.)
RP-03S-C-□	98	150	74
RP-04S-C-□	98	210	74
RP-05S-C-□	98	270	74
RP-03S-C-□-SW	98	240	74
RP-04S-C-□-SW	98	300	74
RP-05S-C-□-SW	98	360	74

Ordering Code

RP- [ ] - C - [ ] - [ ]

03S	SPDT x 8 Relays
04S	SPDT x 12 Relays
05S	SPDT x 16 Relays

None	None
SW	Switching Power Supply 24VDC/2.5A/70W

1	Cable 1 M
2	Cable 2 M
3	Cable 3 M
4	Cable 4 M
5	Cable 5 M