

Introduction

Colter Products offer a range of relay modules designed to provide Programmable controllers, PLC's and Microprocessor systems a power switching capability to their standard solid state outputs. The range of units available is extensive and includes 4,8 and 16 relay modules some with fused common contacts some with dual changeover contacts and all with options for LED relay status indication. Special designs to customer specifications are available for batch quantities in excess of 10 units these can include different connection systems such as D sub ,IDC, Elco, Centronic and / or screw terminals. The common features of the various options are listed below:

- * Din rail mounting to all standard rails conforming to EN specifications.
- * Standard available coil voltages 12, 24, 48v dc.All relay coils fitted with a back emf protection diode.
- * Relay coil status indicated by optional Red LED (On for relay energised)
- * All modules available to switch with either a Positive Common (NPN switching) or Negative Common (PNP switching).
- * Relays can be supplied soldered directly into the PCB or plugged into appropriate relay sockets.
- * Relay Contact terminals designed to accomodate up to 12AWG, 2.5mm Fine strand wire. Some modules are available with two part connectors.

See also individual data sheets for Relay modules with integral fuses with fuse blown alarms

Specifications

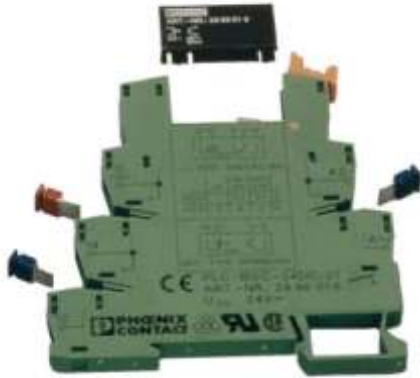
Type:-	RM4-F	RM4-FAC	RM4-1C	RM8-1C	RM8-2C & RM16-2C	RM4-2C-2P & RM16-2C-2P	RM4-2NO & RM8-2NO
Dimensions LxWxH mm	112.5x77x65	112.5x77x65	112.5x77x65	180x77x65	202.5x77x68 (RM8 size)	112.5x77x60 (RM4 size)	180x77x65 (RM8 size)
Number of Relays	4	4	4	8	8 or 16	4 or 16	4 or 8
Contact rating	5A, 240VAC	5A, 240VAC	8A ,240VAC	8A, 240VAC	5A, 240VAC	5A, 240VAC	5A, 240VAC
Contact type	Changeover, fused comn.	Changeover	Changeover	Changeover	2 changeover	2 changeover	2 normally open
LEDs fitted?	Yes	Neon Indicators	Yes	Yes	Yes	Yes	No
Coil conector	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals
Field terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals	Screw terminals
2 part terminals?	No	No	No	Optional	No	Yes	No
NPN or PNP version available?	Yes	N/A	Yes	Yes	Yes	Yes	Yes
Reverse polarity diode	Yes	N/A	Yes	Yes	No		Yes
Coil diode	Yes	N/A	Yes	Yes	Yes	Yes	Yes
Weight grams	234g	240g	220g	387g	482g (RM8 size)	426g	482g

Typical current consumption to drive a single 24VDC relay circuit inclusive of Red LED is 30mA. Relays fitted are either manufactured by Schrack or Finder dependent on module type specified. Full relay specifications are available on request.

When ordering please indicate module number, relay voltage rrequired and required options i.e. relay sockets, NPN or PNP switching, two part connectors (if available).

Please see the following pages for more details on the relay modules.





PLC-RSC-24DC/21

Details

The PLC-RSC-24DC/21 is a single channel relay module which comes with a single SPDT relay fitted.

- * Relay contacts rates at 6A 240VAC.
- * Relay coil 24VDC nominal.
- * LED indication of relay operation.
- * DIN rail mounting module.
- * Compact Size.
- * Dimensions: 6.2mm x 80mm x 94mm.

Order Code: PLC-RSC-24DC/21



RM4-F

Details

The RM4-F is a 4 channel single pole change-over (SPCO) relay module.

- * Relay contacts rates at 240VAC, protected by 5 Amp fuse on common.
- * Relay coil 24VDC nominal.
- * LED indication of relay operation.
- * DIN rail mounting module.
- * Connections by screw terminals.
- * Dimensions: 112.5mm x 77mm x 65mm.

Order Code: RM4-F





RM4-FAC

Details

The RM4-FAC is a 4 channel single pole change-over (SPCO) relay module.

- * Relay contacts rates at 240VAC, protected by 5 Amp fuse on common.
- * Relay coil 110VAC or 240VAC.
- * Neon indication of relay operation.
- * DIN rail mounting module.
- * Connections by screw terminals.
- * Dimensions: 112.5mm x 77mm x 65mm.

Order Code: RM4-F-110VAC or 240VAC



RM4-1C
RM4-1C-2P (two part terminals)

Details

The RM4-1C and RM4-1C-2P is a 4 channel single pole change-over (SPCO) relay module. The RM4-1C-2P has the added advantage of two part terminals fitted.

- * Relay contacts rates at 240VAC at max. 8 Amps. Each channel individually isolated.
- * Each input has polarity and separate flywheel diodes.
- * Relay coil 24VDC nominal (12VDC and 48VDC versions also available).
- * LED indication of relay operation.
- * DIN rail mounting module.
- * Connections by screw terminals.
- * Dimensions: 65mm x 90mm x 65mm.

Order Code: RM4-1C or RM4-1C-2P (if requiring two part terminals)





RM8-1C
RM8-1C-2P (two part terminals)

Details

The RM8-1C is a 8 channel common coil voltage single pole change-over (SPCO) relay module. Specify Positive switching PNP or negative switching NPN of relay coils.

The RM8-1C-2P has the added advantage of two part terminals fitted.

- * Relay contacts rated at 240VAC at max. 8 Amps.
- * Relay coil 24VDC nominal
- * LED indication of relay operation.
- * DIN rail mounting module.
- * Connections by screw terminals.
- * Dimensions: 180mm x 77mm x 54mm.

Order Code: RM8-1C or RM8-1C-2P (if requiring two part terminals)



RM4-2NO (4 channel)
RM8-2NO (8 channel)

Details

The RM4-2NO is a 4 channel double pole normally-open (DPNO) relay module.

The RM8-2NO is a 8 channel double pole normally-open (DPNO) relay module.

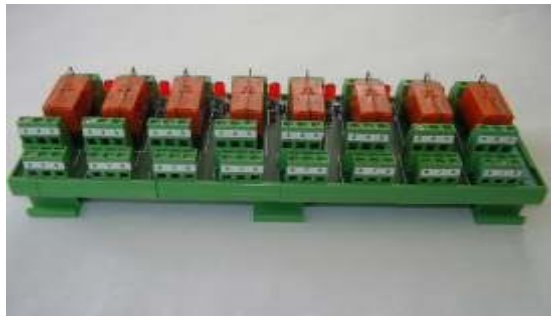
- * Relay contacts rated at 240VAC at max. 5 Amps.
- * Relay coil 24VDC nominal.
- * DIN rail mounting module.
- * Connections by screw terminals.
- * Dimensions: 180mm x 77mm x 60mm.(8ch version)

Order Code: RM8-1C or RM8-1C-2P (if requiring two part terminals)





RM16-2C



RM8-2C

Details

The RM8-2C is a 8 channel double pole change-over (DPCO) relay module.
The RM16-2C is a 16 channel double pole change-over (DPCO) relay module.

- * Relay contacts rated at 240VAC at max. 8 Amps.
- * Relay coil 24VDC nominal, Relay type Schrack RTE24024
- * Relay coil 48VDC nominal, Relay type Schrack RTE24048
- * LED indication of relay operation.
- * DIN rail mounting module.
- * Connections by screw terminals.
- * Dimensions: 202.5mm x 77mm x 54mm, RM8-2C
- * Dimensions: 250mm x 90mm x 54mm, RM16-2C

Order Code: RM8-2C (8 channel) or RM16-2C (16 channel) plus coil voltage



RM4-2C-2P (4 channels, connections by two part terminals)

Details

The RM4-2C-2P is a 4 channel double pole change-over (DPCO) relay module.
Connections are made to the modules via two part terminals.

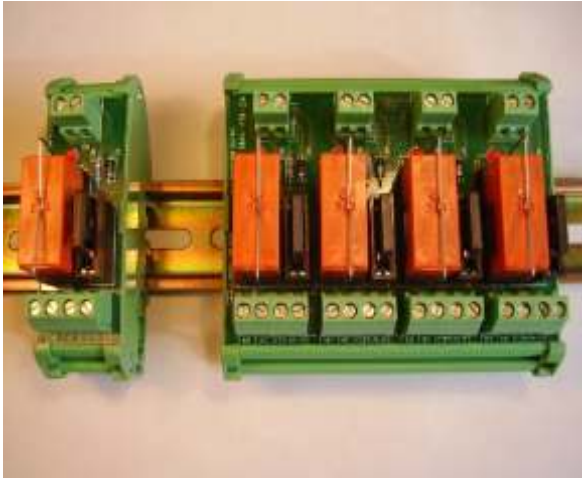
- * Relay contacts rated at 240VAC at max. 8 Amps.
- * Relay coil 24VDC nominal
- * LED indication of relay operation.
- * DIN rail mounting module.
- * Connections by two part screw terminals.
- * Dimensions: 112.5mm x 77mm x 61mm. Weight approx 240g

Order Code: RM4-2C-2P (4 channel)

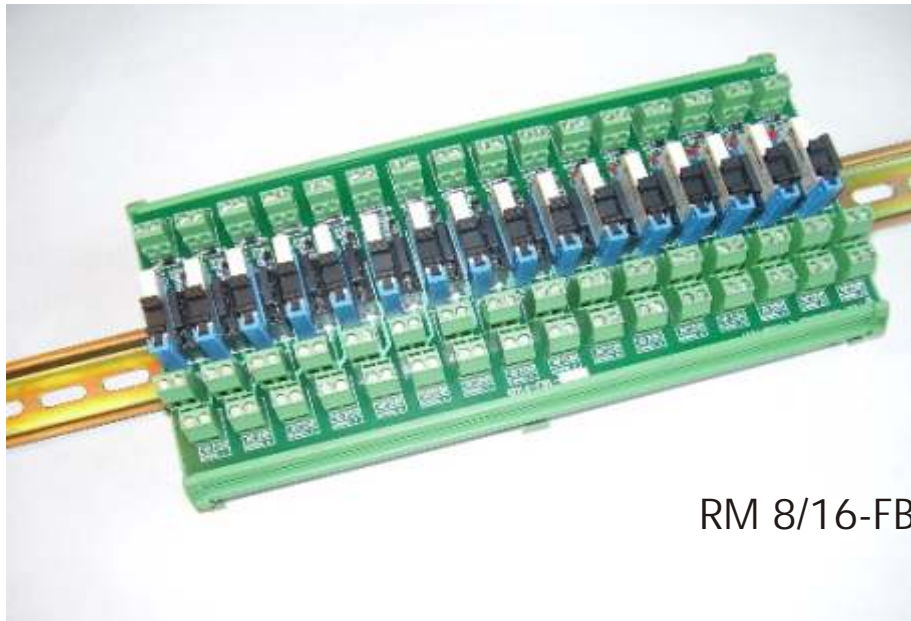


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see also separate data sheets for relay modules with fuse blown alarm circuits



RM 1/4-FBI



RM 8/16-FBI

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Colter
Group